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VINE TESTED

Pedigreed Seed Potatoes

Seeds

Diamond Quality Garden Field and Flower

1926

Complete Annual Catalog

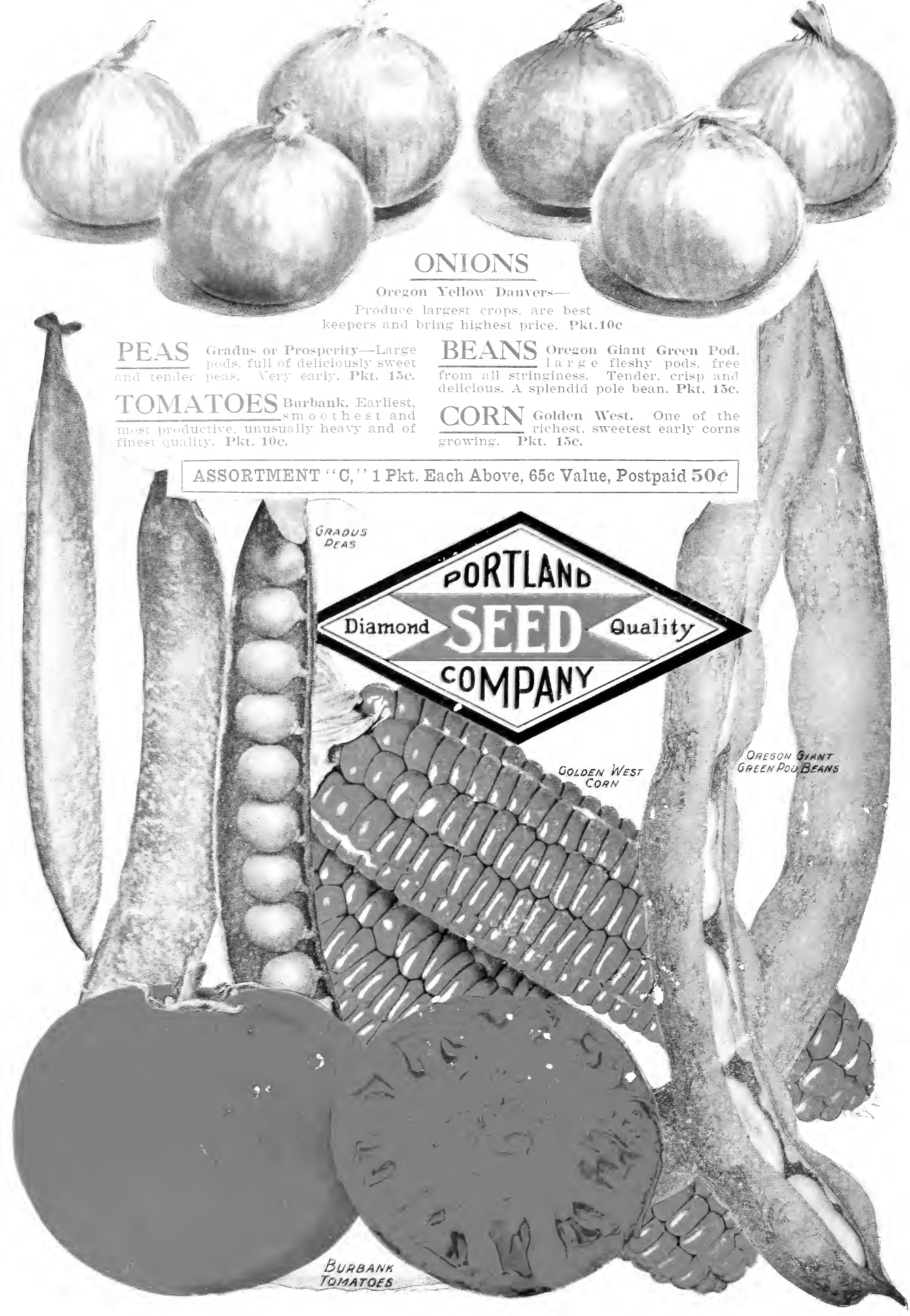
PORTLAND SEED COMPANY

Diamond Quality

Office and Warehouse east First and Alder streets

Retail Store Front and Yamhill 187-Sixth Street

PORTLAND OREGON


ONIONS
Oregon Yellow Danvers—
Produce largest crops, are best keepers and bring highest price. Pkt. 10c
PEAS Gradus or Prosperity—Large pods, full of deliciously sweet and tender peas. Very early. Pkt. 15c.
TOMATOES Burbank. Earliest, smoothest and most productive, unusually heavy and of finest quality. Pkt. 10c.
BEANS Oregon Giant Green Pod. large fleshy pods, free from all stringiness. Tender, crisp and delicious. A splendid pole bean. Pkt. 15c.
CORN Golden West. One of the richest, sweetest early corns growing. Pkt. 15c.
ASSORTMENT "C," 1 Pkt. Each Above, 65c Value, Postpaid 50¢
GRADUS PEAS
PORTLAND
Diamond SEED Quality
COMPANY
GOLDEN WEST CORN
OREGON GIANT GREEN POD BEANS
BURBANK TOMATOES

Portland Seed Company's

Catalog and Seed Annual for 1926

WHOLESALE WAREHOUSE AND MAIL ORDER DIVISION

The Complete Planters Guide

A "Third of a Century" of Service

Established in 1893, for over 33 years we have been giving the best service we know how to give, and constantly use our utmost endeavors to merit the name of "The Premier Seed House of the Northwest."

See Our Anniversary Offers

In appreciation of the confidence and loyalty of the people of the Northwest we are making some special anniversary offers, in which we feel you will be greatly interested. See pages 3 and 4.

Use Our Service Department

Our experience for 33 years enables us to help you in many of your problems in growing, also in raising poultry, bee keeping, etc. Write us and we will gladly advise with you—a service that is free to you.

Our Mail Order Division

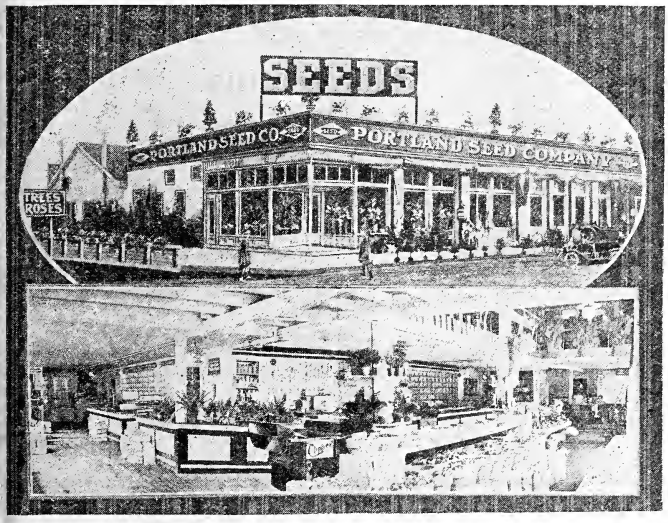
Orders by mail receive prompt attention in this special department of our business. Every order from smallest to largest has careful personal attention and is just as important to us as it is to you. We seldom make errors on orders but if we do tell us at once, we want everything to be satisfactory and pleasing between ourselves and our friends.

Our Front Street Store

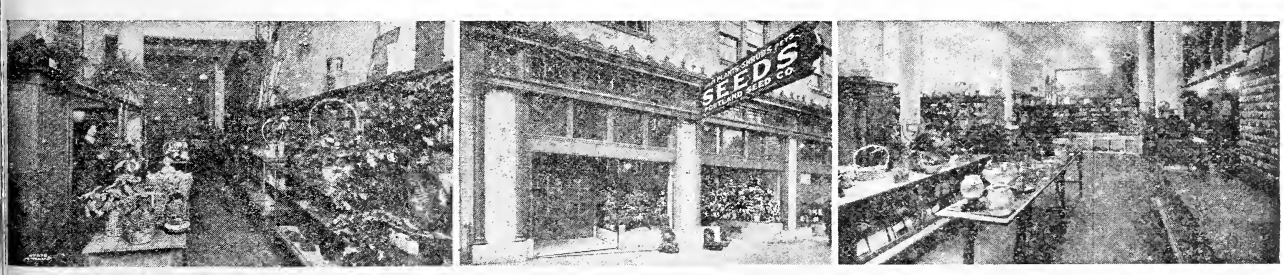
With its complete stock of seeds, bulbs, nursery stock, tools and supplies, is well known to thousands of people in the state as well as the city. It is a pioneer landmark and you are welcomed there at all times by men who know about all growing problems. Come in often.

Our New Sixth Street Store

Has been established in the heart of the shopping district as a convenience to our customers, and affords a beautiful store for the display of seeds, bulbs, plants, ferns, flowers, beautiful potteries, etc., also for song birds, gold fish, fine dogs and pet stock. Come in and see the new store.



RETAIL STORE AT 180 FRONT STREET, CORNER OF YAMHILL



OUR NEW RETAIL STORE AT 187 SIXTH ST., BETWEEN YAMHILL AND TAYLOR STS., IN THE HEART OF THE SHOPPING DISTRICT

Visit Our Stores Whenever Possible—See Our Interesting Displays

See Page 2 for Directions for Ordering
Index on Pages 95-96

See Our Anniversary Specials
Pages 3 and 4

Valuable Information on Page 5
Be Sure to Read It

WHAT OUR DIAMOND TRADE MARK STANDS FOR

By reason of our business standing and the experience gained by a third of a century of success in serving the growers of the Northwest, we have established trade relations with the **world's best producers and sources of supply.** Only by such connections is it possible, in the seed trade, to obtain the select stocks—the best of the season's production; and when you see our DIAMOND Trade Mark on your packet of seeds or item of merchandise you can feel that it is a mark of real quality—**THE BEST OBTAINABLE.** In common with all other responsible seed houses, however, we sell our goods subject to the disclaimer adopted by the **American Seed Trade Association.**

INSTRUCTIONS

When to Order

Send in your combined order for seeds, plants and supplies, etc., at once, and if you do not want all sent now we will send part now and the balance later. The advantage of this is that your order is entered and filled or stock is reserved so you will be assured of receiving your complete requirements when you want them, without delay or omission. If you want part or all of your order held, state distinctly when shipment is to be made. All orders for potatoes, plants and other perishable goods are carefully booked on receipt and filled in rotation as soon as weather permits. If shipped early they are at purchaser's risk.

When Ordering

Use our order blank if you have one. Be sure that your name, complete address and shipping instructions are filled in. Keep a copy of your order so you can check goods when received. We use the greatest care in filling orders and mistakes are rare, but may occur.

Prices and Terms

Prices in this catalog are those prevailing when catalog goes to press and are subject to market changes. Your order will be figured at prices prevailing when it is received and where lower you will be protected and refund made. As prices usually advance on many items toward the planting season, it is to your advantage to order early. Terms are cash with order where arrangements for credit have not previously been made.

Parcel Post Rates

Seeds and Plants weighing 8 oz. or less are mailable at 1 cent for each two oz. or fraction thereof, regardless of zone. Packages weighing over 8 oz. are charged at ZONE rates, plus 2 cents additional for each package.

Zone	Distance	First lb. or Fraction Thereof	Ea. Additional Pound or Fraction	Weight Limit
Local	Portland & Portland Rural Routes	$0.05	$0.00½	70 lbs.
1st and 2nd Zones	to 150 miles	.05	.01	70 lbs.
3rd Zone	150 to 300 miles	.06	.02	50 lbs.
4th Zone	300 to 600 miles	.07	.04	50 lbs.
5th Zone	**600 to 1000 miles**	**.08**	**.06**	**50 lbs.**
6th Zone	1000 to 1400 miles	.09	.08	50 lbs.
7th Zone	1400 to 1800 miles	.11	.10	50 lbs.
8th Zone	Over 1800 miles	.12	.12	50 lbs.

The 8th zone rate applies to ALASKA, HAWAII, the PHILIPPINES and SHANGHAI, CHINA, with 20 lb. weight limit—To CANADA, MEXICO, CUBA and PANAMA, when over 4 oz. and not exceeding 4 lbs. 6 oz. Twenty lbs. can be sent to MEXICO and PANAMA as Foreign Parcel Post.

Parcel Post Shipments

We send all vegetable and flower seeds in quantities of 10 pounds or less by mail, post paid, to any postoffice in the United States, at the prices named in this catalog unless otherwise stated. An additional remittance of 5c will insure any mailed package. We do not guarantee replacement of the goods sent by mail unless insured.

Express or Freight

Express or freight shipments are F. O. B. Portland, and purchaser pays transportation charges. On moderate sized orders we advise express shipments. Our responsibility ceases on delivery in good order to transportation company and every purchase should be carefully examined for loss or damage before accepting it. In case of loss or damage, purchaser must have notation of such loss placed on his freight or express receipt, and may then file claim with his station agent or send the necessary papers to us and we will gladly enter claim, remitting to the purchaser as soon as claim is paid.

Pre-pay Stations

On orders to go by freight or express be sure to add money enough for transportation charges if your station is a pre-pay point, which is always the case when there is no regular agent.

Complaints

Should there be any error in your order or if you are not pleased with some article, advise us promptly, giving order number, and we will make every effort to please you. Do not return any goods until you hear from us.

Special Quotations on Large Orders

Any dealer, market gardener, institution or individual wishing seeds in large quantities, is requested to mail us a list of what is wanted and we will promptly return it with the very lowest market prices. A letter of inquiry may save you dollars if you want to buy in quantity. If in need of something pertaining to agriculture not herein listed write us before ordering elsewhere.

How to Remit

Send money by Postoffice or Express Money Order, Bank Draft or Registered Letter. Postage stamps accepted for small amounts, two cent stamps preferred. Money sent in mail is at sender's risk. Send plenty of money for purchase and transportation charges if to pre-pay point, which will save delay, and we will promptly return all over payments to you.

Disclaimer Notice

We give no warranty, express or implied, as to description, productiveness, or any other matter of any seeds, bulbs, nursery stock, roots or plants we sell, and will not be in any way responsible for the crop.

PORTLAND SEED COMPANY.

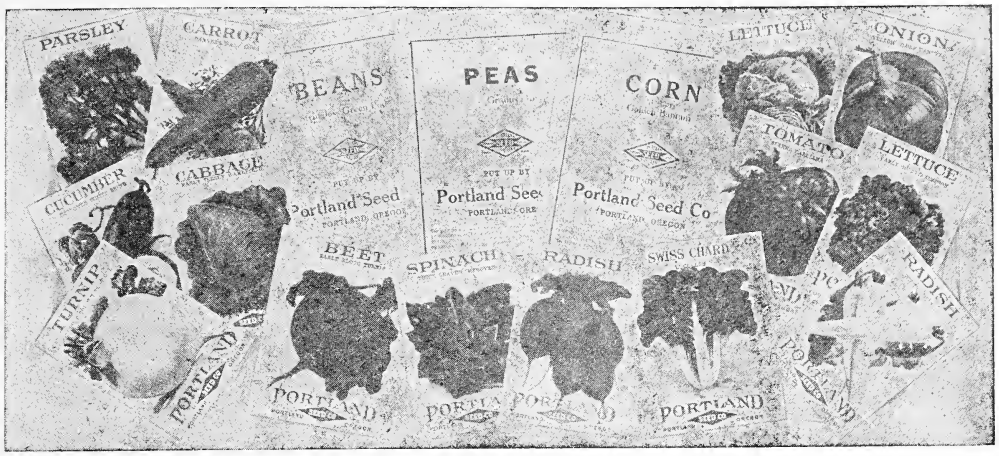
Our Monthly Planting Calendar for Vegetables

	Open Ground	Setting
Asparagus—		
All varieties	Mar. to May.	Fall-Spring...
Artichoke—Globe	Mar. & Apr..	Fall-Spring...
Beans—Bush	May to July..	
Pole	May & June..	
Beet—Early	Mar. & Apr..	
Late	Apr. to July..	
Mangels—Sugar	Apr. to June.	
Brussels Sprouts	Apr. to June.	July to Sept..
Broccoli	Apr. to June.	July to Sept..
Cauliflower—Early		Mar. & Apr..
Late	May & June..	May to July..
Cabbage—Early		Mar. & Apr..
Late	Apr. & May..	May & June..
Carrot—Early	Mar. & Apr..	
Late	Apr. to June.	
Celery—Early		Apr. & May..
Late	Apr. & May..	May & June..
Chervil	Apr. & May..	
Chicory	Apr. & May..	
Chives	Mar. & Apr..	Apr. & May..

	Open Ground	Setting
Collards	Apr. & May..	
Corn—Sweet Early	May & June..	
Sweet Late	May to July..	
Corn Salad	Apr. to June.	
Cucumber	May to June..	May to July..
Cress	Mar. to June.	
Egg Plant		May to July..
Endive	April to July.	
Horseradish		Mar. to May..
Kale	May & June..	June & July..
Kohlrabi	Apr. to June.	May to July..
Leek	Mar. to May..	Apr. to June.
Lettuce—Early	Mar. and Apr	Apr. & May..
Late	Apr. to Aug...	May to Aug...
Melon	May & June..	May & June..
Mustard	Mar. to Oct...	
Okra	May & June..	
Onion—		
For Dry Onions	Mar. to May..	Apr. to June.
Onion Sets—		
For Bunching	Mar. to Oct...	

	Open Ground	Setting
Parsley	Mar. to June.	
Parsnips	Mar. to June.	
Peas—First Early	Oct.& Nov..	
Second Early	Mar. to July..	
Late	Apr. to July..	
Pepper		May & Ju
Pumpkin	May & June..	
Radish—Early	Apr. to Sept..	
Winter	May to Sept..	
Rhubarb	Apr. & May..	Nov. to A
Salsify	Apr.to June..	
Spinach	Apr. to Oct..	
Squash—Summer	May & June..	May & Ju
Fall and Winter	May & June..	
Tobacco		May & Ju
Tomato		May & Ju
Turnip—Early	Mar. to May..	
Late	Apr. to Sept..	
Ruta Baga	Apr. & May..	
Herb Seeds	Apr. & May..	
Potatoes	Apr. to July..	

Our "Third of a Century" Anniversary Offer No. 1



$1.85 Value

You Pay Just Half or

92c Postpaid

Here's just the handiest collection for the small garden that we could select for you—every item is something you will want to enjoy. To get new friends to use DIAMOND QUALITY seeds and also to show our appreciation to old friends, we are offering this splendid collection which would sell for $1.85 at regular prices at JUST HALF. Include the coupon with your order. Only one assortment to a customer.

THIS IS WHAT IT CONTAINS—BEANS, Stringless Green Pod; BEET, Early Blood Turnip; CABBAGE, Early Jersey Wakefield; CARROT, Danver's Half Long; CORN, Golden Bantam; CUCUMBER, White Spine; LETTUCE, Early Curled Simpson; LETTUCE, New York Head; ONION, Yellow Globe Danver; PARSLEY, Double Curled; PEAS, Gradus; RADISH, White Icicle; RADISH, Scarlet Globe; SPINACH, Thick Leaved; SWISS CHARD, Lucullus; TOMATO, Earliana; TURNIP, Purple Top White Globe.

THESE COLLECTIONS ARE PUT UP IN ADVANCE OF THE SEASON, THEREFORE THE ASSORTMENT CANNOT BE CHANGED. THIS OFFER EXPIRES SEPTEMBER 1ST, 1926.

COUPON NO. 1

Cut this coupon out and send it in with 92 cents as payment in full for this big $1.85 regular value **"Third of a Century"** Anniversary Collection No. 1. This offer expires Sept. 1, 1926.

Portland Seed Co.

Our "Third of a Century" Anniversary Offer No. 2

For those who for some reason are unable to use the Anniversary Collection offers we make the following offer:

With your order and remittance for any items in this catalog (except our offers No. 1 and 3) amounting to $1.00 or more, we will include free Two 10-cent packets of vegetable or flower seeds of your own selection, providing you enclose this coupon No. 2 with your order.

This offer expires September 1, 1926.

COUPON NO. 2

This coupon when enclosed with an order and payment amounting to $1.00 or more for merchandise in this catalog (excepting our offers No. 1 and No. 3) entitles you to TWO ten-cent packets of vegetable or flower seed free. This offer expires September 1, 1926.

PORTLAND SEED COMPANY.

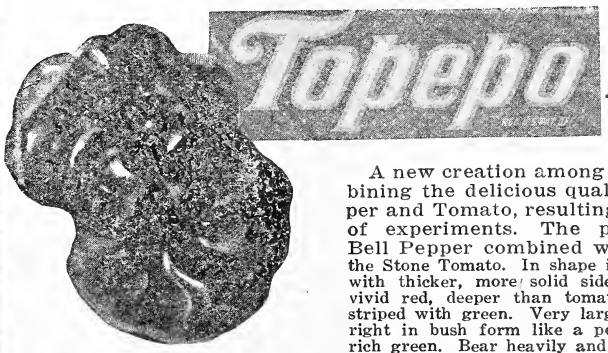
Wild Garden Flower Mixture

We offer a splendid collection of hardy annuals consisting of experimental hybrids, and special selections from fifty-acre Trial Ground, also a large collection of wild flowers and standard sorts, well calculated to make a striking display, to meet the demand for odd corner mixtures or to beautify the vacant lot where cultivation is difficult, and weeds usually predominate. Furnishes an abundance of flowers for cutting.

Pkt. 10c; oz. 25c; ¼ lb. 75c

Postpaid

SOMETHING NEW AND GOOD

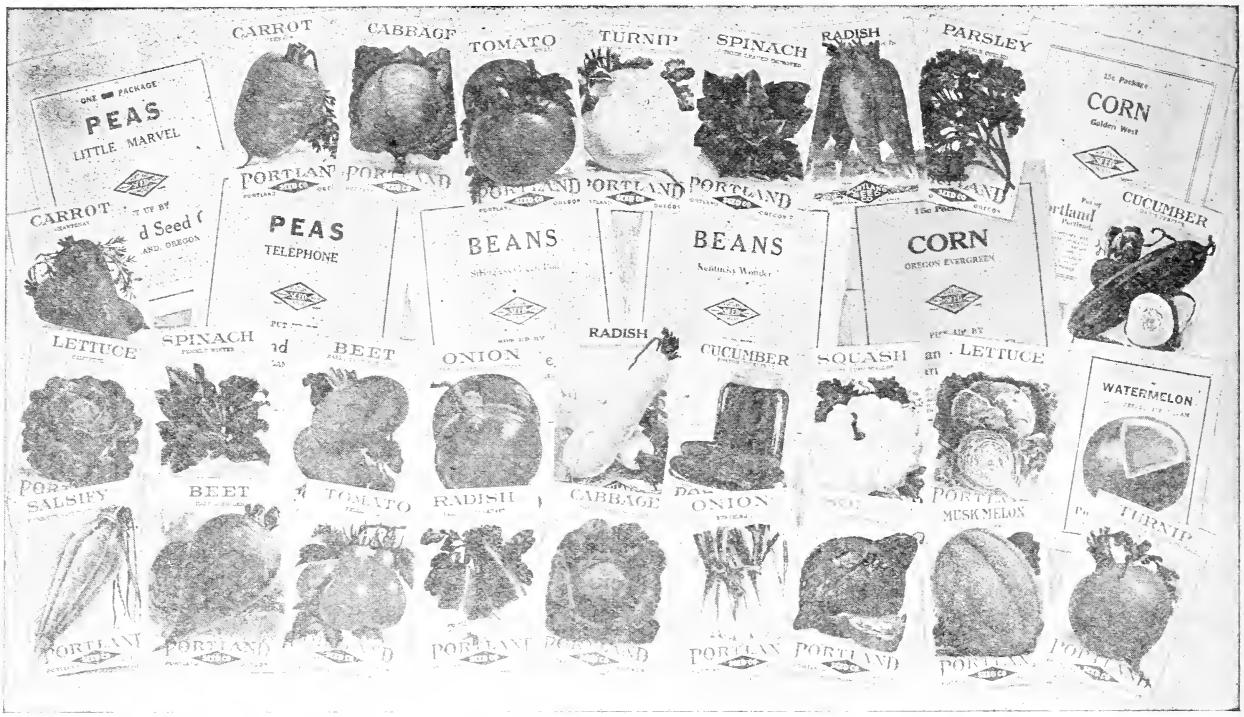


THE TOMATO AND PEPPER COMBINED

A new creation among vegetables, combining the delicious qualities of the Pepper and Tomato, resulting from five years of experiments. The pungency of the Bell Pepper combined with the flavor of the Stone Tomato. In shape it is like the tomato, with thicker, more solid side walls; coloring is vivid red, deeper than tomato or golden yellow striped with green. Very large. Plant grows upright in bush form like a pepper. Foliage deep, rich green. Bear heavily and for a comparatively long season, from August to after heavy frost. Admirable for stuffing and baking, or stuffed with shrimp, crab or lobster salads; in soups, chowders, fish gravies, dressings, etc.

Pkts. 50c and $1.00, Postpaid.

Our "Third of a Century" Anniversary Offer No. 3



$3.60 value, you pay only $2.25 Post Paid

Seed enough in this big complete collection to plant a large home garden. If purchased separately it would cost $3.60. But as our Special Anniversary offer you get it all for only $2.25. A genuine saving of $1.35. All varieties have been carefully selected so as to provide choice vegetables for the table throughout the season. One packet each as illustrated above. 27 large 10-cent packets and 6 extra large 15-cents packets, total $3.60. All for $2.25, by enclosing the coupon. Collections are made up ahead of the season and assortments cannot be changed. This offer expires Sept. 1, 1926.

You Can Be Proud of This Garden

COUPON NO. 3

Be sure to enclose this coupon with your order and remittance for our **No. 3 collection** "Third of a Century" offer.

This offer expires Sept. 1, 1926.

Portland Seed Company.

P. S. Co.'s Suburbanite Vegetable Collection No. 4

$7.60 value, you pay only $4.75 postpaid

For the dweller in the suburbs who has more ground than the person on an ordinary city lot, this is an ideal co lection. It will give a continuous supply of the best and most productive fresh vegetables throughout the season, ar leave a goodly supply to store away in the cellar for winter use. This collection contains:

BEANS—
- Stringless Greenpod ½ lb. 20c
- Golden Wax-podded ½ lb. 20c
- Kentucky Wonder Pole 1 Pkt. 15c
- Oregon Pole Lima 1 Pkt. 15c

BEET—
- Crosby's Egyptian 1 Oz. 15c
- Half Long Blood 1 Oz. 15c
- Long Dark Blood 1 Oz. 15c

CARROT—
- Early Scarlet Horn 1 Pkt. 10c
- Danver's Half Long 1 Oz. 15c
- Oxheart 1 Oz. 15c

CABBAGE—
- Early Jersey Wakefield 1 Pkt. 10c
- Copenhagen Market 1 Pkt. 10c
- Danish Ballhead 1 Pkt. 10c

SWEET CORN—
- Golden West ½ lb. 25c
- Country Gentleman 1 Pkt. 15c
- Oregon Evergreen ½ lb. 25c

CAULIFLOWER—
- Early Snowball 1 Pkt. 15c

CELERY—White Plume 1 Pkt. 10c

CUCUMBER—
- Davis Perfect Green 1 Pkt. 10c
- Boston Pickling 1 Pkt. 10c

LETTUCE—
- Black-Seeded Simpson 1 Oz. 20c
- New York Head 1 Oz. 35c
- P. S. Co. Crispette 1 Oz. 35c

MUSKMELON—Burrell Gem 1 Oz. 20c

WATERMELON—
- King and Queen 1 Oz. 20c

ONION—
- Oregon Yellow Danvers 1 Pkt. 10c
- White Bunching 1 Oz. 10c

PARSLEY—Double Curled 1 Pkt. 10c

PARSNIP—Hollow Crown 1 Oz. 15c

PEAS—Gradus ½ lb. 25c
- Telephone 1 lb. 45c

PEPPER—Large Bell 1 Pkt. 10c

PUMPKIN—Large Yellow 1 Oz.

RADISH—
- Crimson Giant 1 Oz.
- White Icicle 1 Oz.
- French Breakfast 1 Oz.

SALSIFY—
- Mammoth Sandwich Island 1 Pkt.

SPINACH—
- Improved Thick Leaved 1 Oz.

SQUASH—
- White Bush—Summer 1 Pkt.
- Hubbard—Winter 1 Oz.

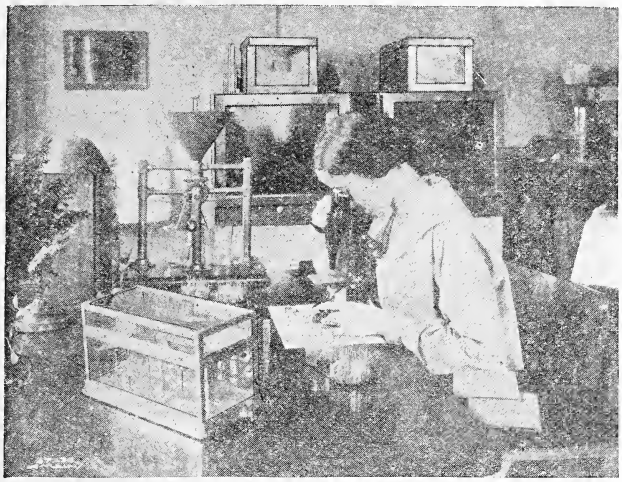
SWISS CHARD—Lucullus 1 Oz.

TOMATO—
- Chalk's Early Jewel 1 Pkt.
- Dwarf Champion 1 Pkt.

TURNIP—
- Purpletop Strapleaved 1 Oz.
- Purpletop White Globe 1 Oz.

RUTABAGA—
- American Purpletop 1 Oz.

Our Own Exclusive Seed Laboratory



A Very IMPORTANT Place, and What It Means to You

When the seed has passed the tests for purity and germination and is found of high quality, the complete lot, from which the samples were taken is, if necessary, taken to our cleaning department where 18 large machines have been installed at a cost of over $60,000.00 for the purpose of cleaning out the chaff and foreign seed. Some of this machinery has been developed for our exclusive use by our experts. Many seeds such as peas, beans, etc., are sent to our hand-picking and sorting rooms where the seed passes before our operatives on belts and is thoroughly recleaned. Few people realize the care we use in giving them seed that is, as far as humanly possible, true pure seed. However, our reward lies in the fact that our customers know the high quality of what they receive and are assured that when they use seed that is labeled **DIAMOND QUALITY** it's the best obtainable.

Our POTATO Division

Our "Vine Tested" seed potatoes are again tested after harvest, for soundness and uniformity of condition, over specially built grading machines where an "honest pack" is assured our customers.

To protect the interests of our customers and maintain our standard of excellence, we installed and have for several years maintained a complete modern SEED LABORATORY equipped as recommended by the U. S. Department of Agriculture, with a certified seed analyst in charge.

The Only Commercial Seed Laboratory in Oregon

maintained by a private company. This laboratory is installed in our warehouse and just as soon as a lot of seed is received samples are taken to the laboratory, examined under powerful microscopes, the true seed separated from chaff and other seed and weighed on the most delicate scales for percentage of purity, etc., before the seed is accepted.

A Very Interesting Place

After the seed is examined the samples are then placed in the germinators on trays like the one below and after germinating, is inspected and the germination test recorded.

Our SEED GROWING Division

Over 4000 acres were under contract to us last year and under our personal supervision to assure the best acclimated seed for our particular conditions of climate and soil.

Our ROSE GROWING Division

Our sales of roses each year are enormous, due to the fact that we have the best rose growers under contract growing for us exclusively, and enabling us to sell at prices far below the market. From the "Rose City of the World" you are able to secure the finest roses grown at the very lowest prices.

REFERENCE TABLES

Quantity of Seed to Produce a Given Number of Plants and to Sow an Acre

Artichoke, 1 oz. to 500 plants	6 oz.
Artichokes—White French	8 bu.
Asparagus, 1 oz. to 800 plants	1 lb.
Asparagus Roots	7500
Barley	2 to 2½ bu.
Beans, dwarf, 1 lb. to 100 ft. of drill	1 bu.
Pole, 1 lb. to 100 hills	½ bu.
Beet, Garden, 1 oz. to 100 ft. drill	6 to 7 lbs.
Mangel, 1 oz. to 100 ft. of drill	5 lbs.
Broccoli, 1 oz. to 2,000 plants	4 oz.
Brussels Sprouts, 1 oz. to 2,000 plants	4 oz.
Broom Corn, in Drills	15 lbs.
Buckwheat	½ to 1 bu.
Cabbage, 1 oz. to 2,000 plants	4 oz.
Carrot, ½ oz. to 100 ft. drill	3 lbs.
Cauliflower, 1 oz. to 3,000 plants	3 to 4 oz.
Celery, 1 oz. to 5,000 plants	4 oz.
Cheat	2 bu.
Chicory	4 lbs.
Clover, Alsike and White	8 to 10 lbs.
Alfalfa	15 to 20 lbs.
Crimson Trefoil	10 to 15 lbs.
Red	10 to 15 lbs.
Collards, 1 oz. to 2,000 plants	4 oz.
Corn, Pop (shelled)	8 to 10 lbs.
Sweet or Field, hills	12 to 15 lbs.
For soiling drills	3 bu.
Cress, ¾ oz. to 100 ft. drill	1 lb.
Cucumber, 1 oz. to 100 hills	2 to 3 lbs.
Egg Plant, 1 oz. to 2,000 plants	4 oz.
Emmer	100 lbs.
Endive, ¼ oz. to 100 ft. drill	4 lbs.
Flax broadcast	¾ bu.
Grass—	
Kentucky Blue, pasture	1 to 2 bu.
Kentucky Blue, lawns	100 lbs.
Meadow Fescue	1 bu.
Mixed Lawn	5 to 6 bu.
Red Top, Chaff	1 to 2 bu.
Red Top, solid seed	10 to 15 lbs.
Timothy	10 to 15 lbs.
Orchard, Perennial Rye	1 to 2 bu.
Wood Meadow	1 bu.
Horseradish Roots	15,000 to 25,000
Kale, 1 oz. to 2,000 plants	4 oz.
Kaffir Corn, in drills	6 to 10 lbs.
Kohl Rabi, 1 oz. to 2,000 plants	4 oz.
Leek, 1 oz. to 100 ft. of drill	4 lbs.
Lettuce, 1 oz. to 150 ft. of drill	3 lbs.
Mushroom Spawn	1 brick to 10 sq. ft.
Millet—For Seed	20 lbs.
For Hay	30 lbs.
Melon, Musk, 2 oz. to 100 hills	2 to 3 lbs.
Water, 4 oz. to 100 hills	3 to 4 lbs.
Oats	2 to 3 bu.
Okra, 1 oz. to 100 ft. of drill	8 lbs.
Onion Seed, for sets	60 to 85 lbs.
1 oz. to 150 ft. drill	3 to 4 lbs.
Onion Sets, 1 qt. to 40 ft. drill	8 bu.
Parsnips, 1 oz. to 150 ft. drill	3 lbs.
Parsley, 1 oz. to 150 ft. drill	3 lbs.
Peas, Field	2 bu.
Garden, 1 lb. to 100 ft. drill	1 to 2 bu.
Pepper, 1 oz. to 1,000 plants	2 lbs.
Potatoes	10 bu.
Pumpkin, ½ lb. to 100 hills	3 to 5 lbs.
Radish, 1 oz. to 100 ft. drill	10 lbs.
Rape	3 to 5 lbs.
Rye	1½ to 2 bu.
Salsify, 1 oz. to 100 ft. drill	6 to 8 lbs.
Spinach, 1 oz. to 100 ft. drill	8 to 10 lbs.
Sugar Cane, in drills	10 lbs.
Sunflower	8 lbs.
Squash—Summer, 4 oz. to 100 hills	3 lbs.
Winter, 8 oz. to 100 hills	4 lbs.
Tomato, 1 oz. to 2,000 plants	4 oz.
Tobacco, 1 oz. to 4,000 plants	3 oz.
Turnip, 1 oz. to 150 ft. drill	2 to 3 lbs.
Vetches	1½ to 2 bu.
With Grain	1 bu.
Wheat	1½ to 2 bu.

NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

In planting trees the greater distance should be given in the richer soils

DISTANCE APART	Square Method	Triangular
1 foot apart each way	43,560	50,300
2 feet apart each way	10,800	12,575
4 feet apart each way	2,722	3,143
6 feet apart each way	1,210	1,397
9 feet apart each way	537	620
10 feet apart each way	435	502
15 feet apart each way	193	223
16 feet apart each way	170	196
20 feet apart each way	108	125
25 feet apart each way	70	81
30 feet apart each way	48	55
40 feet apart each way	27	31

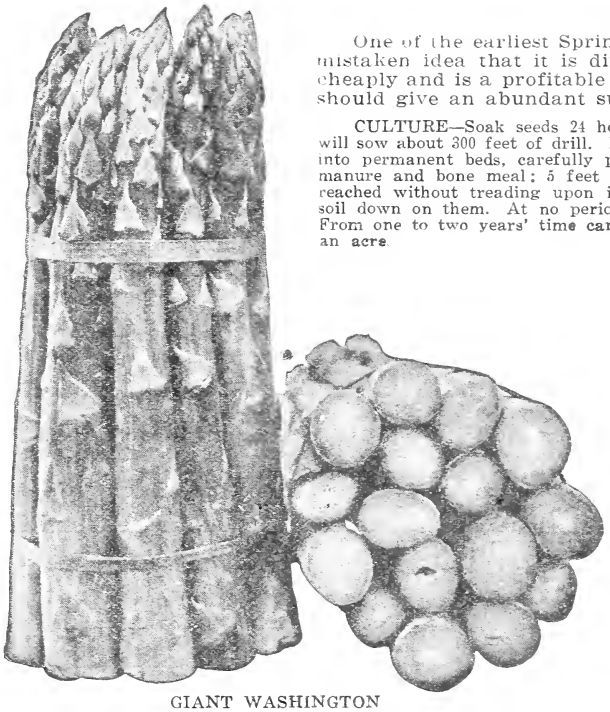
Diamond Quality VEGETABLE SEEDS

RECLEANED
TESTED
for
GERMINATION

ASPARAGUS

One of the earliest Spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply and is a profitable market crop. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for the average family.

CULTURE—Soak seeds 24 hours in warm water, sow early in drills one foot apart. An ounce of seed will sow about 300 feet of drill. Keep soil mellow and free from weeds. After one year's growth transplant into permanent beds, carefully prepared by working to a depth of 24 inches, manuring deeply, using old manure and bone meal; 5 feet is a convenient width for a bed that will carry three rows, and can be reached without treading upon it. Set plants 18 inches apart in the rows and spread roots out, firming the soil down on them. At no period of its growth should the asparagus crop be allowed to lack for manuring. From one to two years' time can be saved by buying roots of us. See plant department, 7260 roots will plant an acre.



GIANT WASHINGTON

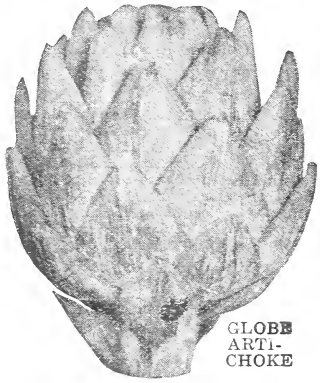
GIANT WASHINGTON—THE NEW RUST-RESISTING ASPARAGUS—The U. S. government in its experiments developed the new varieties of Washington, Mary Washington, and Martha Washington Asparagus as showing the best results. Our grower of Giant Washington Asparagus seed under the supervision of the U. S. government has produced the superior asparagus we are listing under the name, "Giant Washington." This was produced by breeding the female plants Martha and Mary to the male plant Washington, combining the best characteristics of the three. This seed is grown especially for us, and our plants are all grown from this seed by one of our best growers. **Be sure to get the genuine. Pkt. 20c; oz. 40c; ¼ lb. $1.00; lb. $3.25, postpaid.**

ARGENTEUIL—A popular French asparagus of great merit; larger and lighter in color and said to be superior to Palmetto; of vigorous, even growth; very early and free from disease. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00, postpaid.**

PALMETTO—Extra early and uniformly large stalks remain tender, being in prime condition for some days after coming above the ground. A heavy, sure cropper. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00, postpaid.**

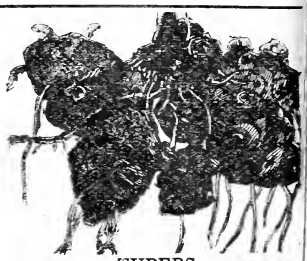
See Page 69 for Asparagus PLANTS

ARTICHOKES



GLOBE ARTICHOKE

LARGE GREEN GLOBE—The variety used as a table vegetable. The edible portion is the thick end of leaf of the flower head. Sow early in drills and when about ten inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens. The seedlings are variable and for market gardening they are generally propagated from cuttings. The buds when in blossom resemble huge thistles and the foliage being highly ornamental, this variety is much used for hedges and display in parkings. **Pkt. 10c; oz. $1.00.**



TUBERS

NEW FRENCH—Tubers planted and cultivated the same as potatoes. A superior quality and much higher yielding than the commoon varieties. Of great value for feeding stock the best hog feed known; remarkable for fattening properties, great productiveness (over one thousand bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. Turn the hogs into the field, and they will help themselves by rooting. One acre will keep from twenty to thirty hogs in condition from October until April; highly recommended for milch cows, increasing yield of milk and at the same time improving their condition. Plant ten bushels per acre. **10 lbs; $1.00, postpaid; 100 lbs $3.00, f. o. b., Portland.**

JERUSALEM—white—produces tubers like potatoes, grown in the same way. A fine vegetable for the table as well as a valuable hog feed. **10 lbs $1.00, postpaid; 100 lbs, $2.50. f. o. b., Portland.**

Note—Tubers on hand from February. Write for prices.

BEETS

CULTURE—The beet is hardy and may be planted as soon as ground can be well prepared, doing best in rich, sandy soil, sown in rows sixteen inches apart, covered one and one-half inches deep. Seed will sprout better if soaked 24 hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the rows. For field crop, rows should be far enough apart to permit the use of a horse cultivator.

P. S. CO'S MARKET GARDENER—This extra early Beet is remarkable for its fine quality and rapid growth; deep red color, and handsome shape; as an early market sort it is unrivaled. It is superseding Egyptian, being earlier in development, more attractive and of superior quality for the table, holding its color and cooking quickly. Market gardeners prefer it as it matures evenly, stands a long time and does not split. **Pkt. 10; oz. 20c; ¼ lb. 45c; lb. $1.25.**

DETROIT DARK RED TURNIP—A fine beet for bunching for market; tops exceptionally small and uniformly upright. Roots are perfect turnip shape with small tap roots. One of the deepest red beets. Quality the finest. **Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. $1.25.**

EARLY MODEL—A splendid, handsome, extra early variety, well liked by the market gardener. Globular in shape, medium size, smooth, dark red color. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

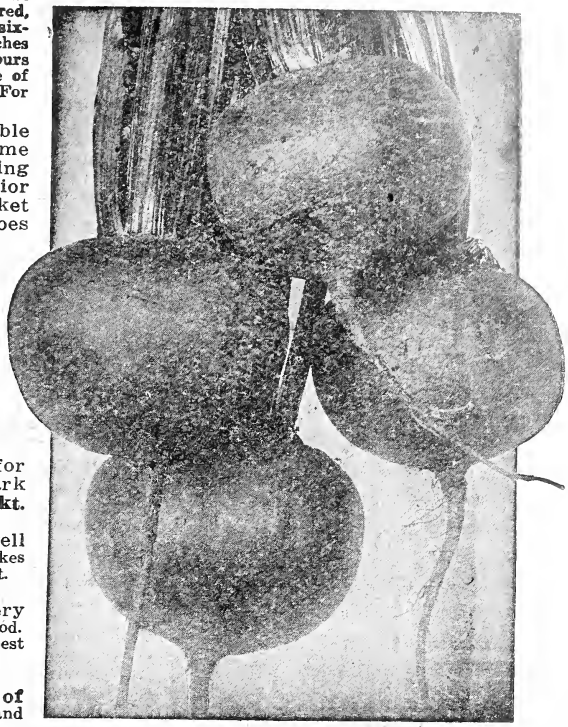
EARLY ECLIPSE—One of the best early sorts; possesses all the qualities requisite in a first class beet, and is of a uniform, globular shape. The roots are a bright, glossy red, fine-grained and delicious. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

EXTRA EARLY EGYPTIAN—The best variety for forcing, and for market gardeners; being very early with small tops. Roots very dark red, rounded on top, but flat beneath, with very small tap roots. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

LONG SMOOTH DARK BLOOD—The leading late variety, keeping well all Winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

HALF LONG BLOOD—A variety of excellent quality. One of the very best for Winter use; does not become woody and keeps as well as Long Dark Blood. Root is smooth and handsome, flesh brilliant color and as good in quality as the best Blood Turnip varieties. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

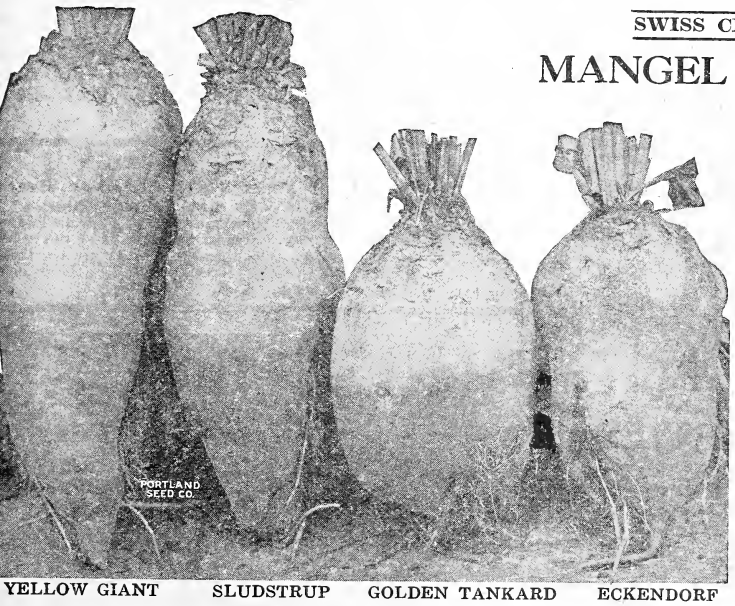
EARLY BLOOD TURNIP—IMPROVED—An extra selected stock of Blood turnip having larger, coarser tops and roots than the Detroit Dark Red, and requiring a longer time to mature. Excellent for Summer and Autumn use. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**



P. S. Co's. MARKET GARDENER

SWISS CHARDS—SEE PAGE 13

MANGEL WURTZEL



YELLOW GIANT SLUDSTRUP GOLDEN TANKARD ECKENDORF

These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food during the Winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but do not produce as heavily.

CULTURE OF MANGEL AND SUGAR BEETS—Thoroughly fine soil as good roots cannot be grown in lumpy, poorly prepared ground. The largest crops come from a soil ranging from light to a friable clay loam that has received from eight to fifteen loads of manure to the acre. This can be plowed in or half broadcast and half used in the furrows; plowing in of fresh manure in the Fall is best. It is also necessary to add some commercial fertilizer, but any good soil will grow a fair crop.

Use 6 to 10 lbs. of seed per acre, depending on whether machine or hand planting, sowing liberally so that in thinning an even stand can be secured. Rows 18 to 30 inches apart. Level culture is best. If planted in dry weather, be sure seed is in from one to one and one-half inches as it requires lots of moisture to burst the hard shell.

A poor stand and weak germination is often due to improper planting and lack of moisture. Transplanting can be successfully done to fill vacancies. Do this before a shower, and early, breaking off tops of larger leaves.

P. S. CO'S HEAVIEST CROPPER—A wonderful improvement on existing stocks of Yellow Mangels, one of the heaviest croppers and easiest pulled, of very fine quality. The small foliage permits it to be left comparatively thick in the rows and weight per acre is therefore enormous. It is considered distinct over all other kinds and one of the largest and best Yellow Mangels. **Pkt. 10c; ½ lb. 30c; 1 lb. 55c; 10 lbs., postpaid $5.00.**

YELLOW GIANT, INTERMEDIATE or GATE POST—Roots very large, growing over half out of the ground; flesh white, sweet and tender; tops bright green, comparatively small; neck small, short, never becomes woody, easily harvested. **Pkt. 10c; ½ lb. 30c; lb. 55c; 10 lbs. $5.00, postpaid.**

GIANT RED ECKENDORF—Straight, cylindrical form, very blunt, grows mostly above surface. A very heavy cropper. **Pkt. 10c ¼ lb. 30c; lb. 55c; 10 lbs. $5.00, postpaid.**

GOLDEN TANKARD—Dairy farmers state they are able to obtain a higher price for milk when feeding cows on "Golden Tankard." Sheep thrive on it. A rich, deep yellow throughout. Early, hardy and a heavy cropper. **Pkt. 10c; ½ lb. 30c; lb. 55c; 10 lbs. $5.00, postpaid.**

MAMMOTH LONG RED—An improvement on the Long Red, with ordinary cultivation. Very uniform, smooth, of good shape. Grow in deep loose soil. **Pkt. 10c; ½ lb. 30c; lb. 55c; 10 lbs. $5.00, postpaid.**

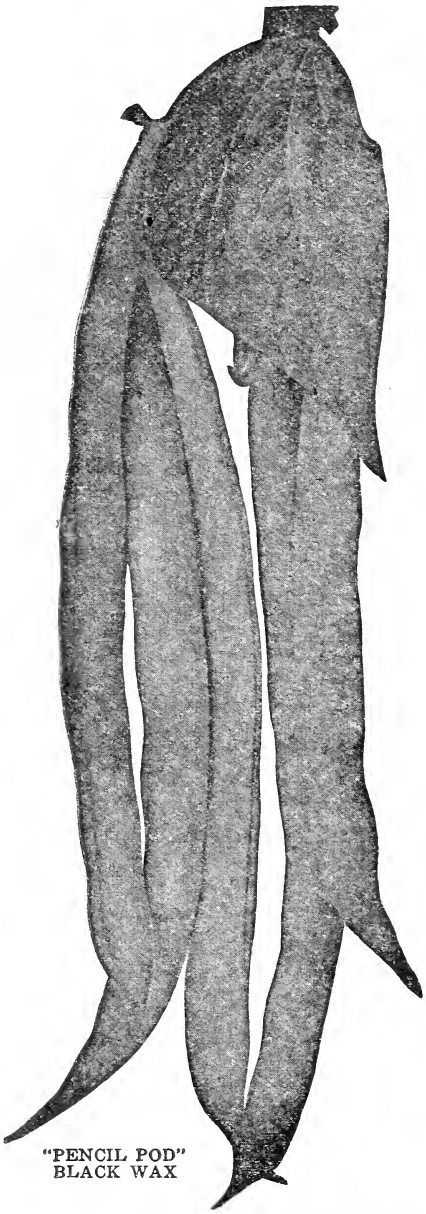
NEW MANGEL HALF SUGAR—A new variety valuable for feeding purposes, yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beets. Roots large, very smooth, with few rootlets; creamy white, with medium sized tops. **Pkt. 10c; ½ lb. 30c; lb. 55c; 10 lbs. $5.00, postpaid.**

DANISH SLUDSTRUP—Long, reddish-yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first class certificate by Danish Govt. **Pkt. 10c; ½ lb. 30c; lb. 55c; 10 lbs. $5.00, postpaid.**

SUGAR BEET

KLEIN WANZLEBEN—This is the standard variety grown commercially for the production of sugar. **Pkt. 10c; ½ lb. 45c; lb. 80c; 10 lbs. $7.50, postpaid.**

WHITE FRENCH OR VILMORIN'S IMPROVED SUGAR—The best variety for growing for sugar-making. **Pkt. 10c; ½ lb. 45c; lb. 80c; 10 lbs. $7.50, postpaid.**



"PENCIL POD" BLACK WAX

DWARF OR BUSH BEANS

Owing to our mild Winters and cool Summers, locally grown acclimated seed from properly selected strains will be found to give best satisfaction in the Pacific Northwest. We are constantly testing and selecting the most dependable and profitable sorts and increasing our facilities and connections for local production, and when we offer a variety as being suited to your requirements and location you can accept it without fear of disappointment.

CULTURE—The soil best adapted for growing beans is a light, rich, well-drained loam, which was well manured for the previous crop. If the ground is too freshly manured the plants are apt to run to vines and set few blossoms. Plant in drills about two inches deep and from eighteen inches to two feet apart, as soon as the ground is dry enough and warm—about May 1st, or later, and for succession up to July 15th. Beans are very sensitive to cold and wet before they have sprouted, but are not so liable to be damaged after they are above ground.

Plant about one pound of Dwarf or Bush Beans to 100 feet of drill, one bushel per acre. Pole Beans—one pound to 100 hills, requiring about one-half bushel per acre. When planted in hills, 2½ to 3 feet apart, small varieties such as "Navy" and "Lady Washington" will require from 16 to 25 pounds per acre, larger sorts running from 25 to 30 pounds. Owing to their short season of growth, from 60 to 80 days, beans generally make a profitable crop for trucking. After harvesting the beans always plow the vines under to fertilize the soil.

WAX PODDED VARIETIES

Postpaid, Pkt. 15c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $2.75

PENCIL POD WAX—The most satisfactory of early dwarf Wax Beans. Of dwarf, bushy growth, about fifteen inches high, large, luxuriant foliage, beneath which in great clusters will be found an enormous crop of beautiful straight yellow pods six to seven inches long, well rounded, deeply "saddle backed," meaty and solid clear through; they are brittle, of rich mild flavor, and **entirely stringless.** An early sure cropper; of the finest quality.

GOLDEN WAX—One of the best dwarf sorts for the home market and private gardens. Plants are erect, compact, and very productive. Pods medium length, nearly straight, very fleshy, broad and flat, golden yellow color. The variety cooks quickly as a snap-bean, shells well when green, and is of superior quality used either way. Dry seeds are medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color may be affected somewhat by conditions of soil and ripening.

DAVIS WAX—Rustless and immensely productive, very hardy and one of the best for market gardeners. The dried bean is kidney-shaped, clear white and a favorite for baking and canning.

SURE CROP WAX—Black Seed. A sure cropper of fine quality. Superior to Prolific Black Wax. The pods are longer, rather flat, stringless and a better yielder. A good market variety.

IMPROVED KIDNEY WAX—A great improvement over the Davis Kidney Wax. Plants of erect habit, robust in growth and very prolific. Pods somewhat flattened but thick and fleshy, of rich creamy color, stringless and of excellent quality. A great bean for the market gardener.

Every Garden Needs "NITRAGIN"

Garden size is for Peas, Sweet Peas and Beans only, including Lima (3 in one). **Price 20c.**

NITRAGIN is an old reliable inoculator. It is well known and used by Agricultural Colleges. Sold in tins—not glass—packed in a rich soil-like medium. Contents always fresh and the bacteria active and vigorous. NITRAGIN is easy to use. **See page 32 for all sizes.**

GREEN PODDED VARIETIES

Postpaid, Pkt. 15c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $2.75

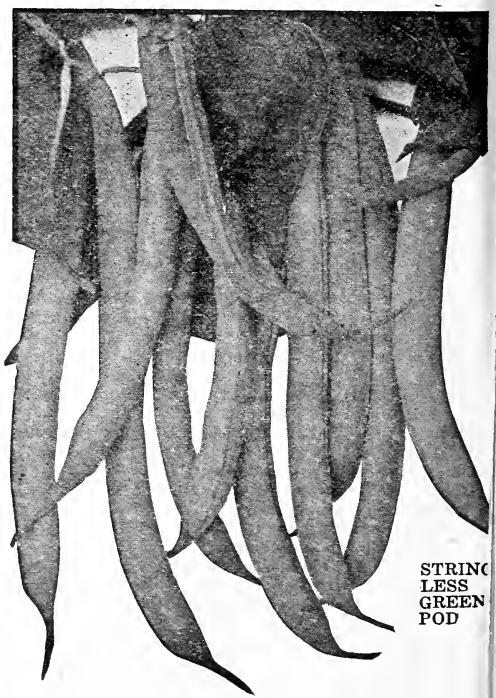
STRINGLESS GREEN POD—Extra Early. The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. It is of immense value, not only to the market gardener, but also for those who seek early beans of a rare quality for the home table. A splendid dried brown bean.

BLACK VALENTINE—Hardy and productive. Vines vigorous, pods nearly round or slightly flattened. Large crop can generally be depended upon. Good shipper.

EXTRA EARLY RED VALENTINE—This improved strain has a healthy, vigorous growth. The beans are small, but the pods are thick, round and fleshy; very tender, rich and quite stringless. A popular bean for canning green. Bush grows to a height of 15 inches and is very prolific.

TREE BEAN—Of sturdy branching habit bearing heavily and ripening early and evenly. The foliage is scant and usually falls before the pods fully mature. The distinctive pure white, rounded form and small size distinguishes this bean from other small white varieties and we consider it the most desirable for Northwestern growers. The cooking and table qualities are unsurpassed.

DWARF HORTICULTURAL or "Cranberry Bean" — Grows erect, strong and shrubby, and is very prolific. The bean is highly prized, green shelled. It is rather large, plump and beautifully mottled yellow and red; one of the most delicious and desirable beans and a great favorite with market gardeners. The dwarf type of the old favorite London Horticultural Pole Bean.



STRINGLESS GREEN POD

DWARF OR BUSH BEANS
Green Podded Varieties Continued

Postpaid, Pkt. 15c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $2.75

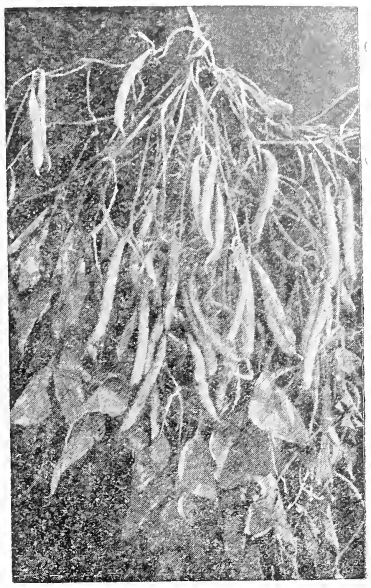
STRINGLESS REFUGEE—A splendid improvement on the Refugee Thousand to One, with which it compares in season and earliness, but is absolutely stringless. Pods are round, more even in length, possibly a little lighter green in color, exceedingly tender and of a delicious flavor. A splendid bean both for snap and canning purposes.

REFUGE, OR THOUSAND TO ONE—Of great value on account of its hardiness, vigorous growth and wonderful productiveness. Is not excelled by any other variety as a snap bean, and is considered the best for picking or canning. Beans small, dark purple, veined brown. Pods of perfect form, dark green, veined purple.

CANADIAN WONDER—This splendid bush bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Comes a little later than the New Stringless Green Pod, but continues in bearing throughout the season, and is excellent shelled green.

LADY WASHINGTON—Sturdy, bushy plant, erect habit, and is a great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder; being especially adapted to our Western soils.

BROAD WINDSOR—"Horse Beans." Stalk erect, strong and shrubby. The bean is large, broad and flat; should be planted early and is best green shelled. A European variety, very hardy and can be planted earlier than other sorts. Grown extensively for stock in some sections.



STRINGLESS REFUGEE

CLIMBING OR POLE BEANS

CULTURE—Do not plant until the soil has become warm and the weather settled—and always remember beans should have rich, well drained soil. It is best to set the poles before planting; these should be six to eight feet high, rows about four feet each way. Plant four to six beans to the hill and thin to two or three, depending on the variety. A pound should plant 75 to 100 hills. A top dressing of commercial fertilizer or old manure should be worked in when cultivating.

Postpaid, Pkt. 15c; ½ lb. 20c; 1 lb. 35c; 10 lbs. $2.75
EXCEPT AS NOTED BELOW

ASPARAGUS BEAN—The True Asparagus Bean is superior to Kentucky Wonder in quality and fully equal in productiveness. The long, slender pods are very fleshy, almost round, crisp, tender and delicious, of a beautiful pale green color, attractive form and absolutely stringless. They grow vigorously and bear heavily. **(Stock limited.) Pkt. 15c; ½ lb. 30c; lb. 50c, postpaid.**

SCARLET RUNNER—A favorite as a shell bean and for its flowers, which are bright scarlet; seeds broad and kidney shaped.

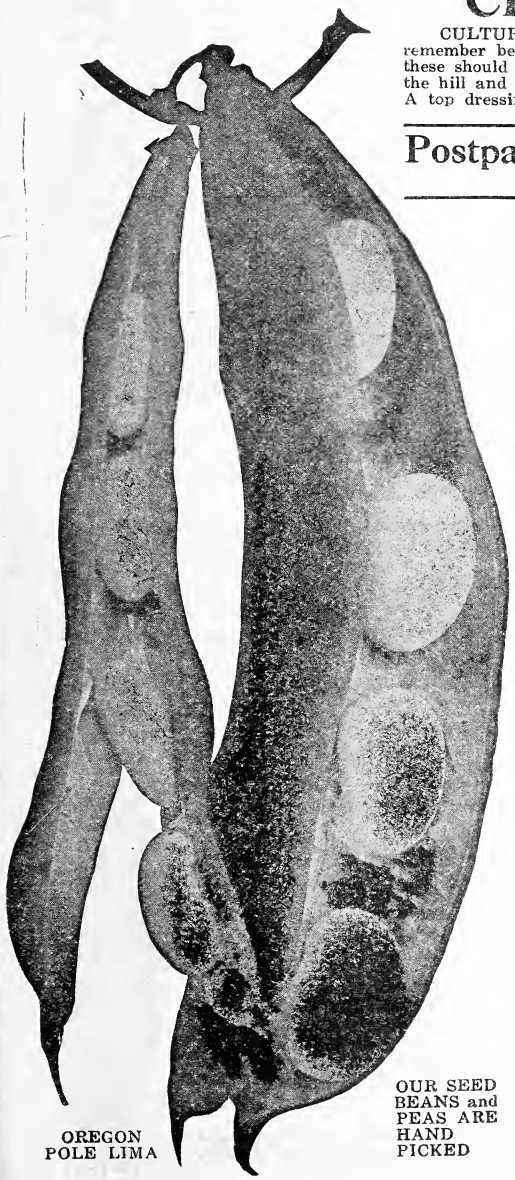
OREGON POLE LIMA—The only Bean of its kind that will thrive in our cool climate—It grows a strong thrifty vine and is very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. It can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans, and they are ready to use when the pods are filled and first begin to ripen. **They are at their best when the full green pods begin to turn yellow.**

KENTUCKY WONDER—A vigorous climber; very prolific, bearing in clusters extremely long and very fleshy, succulent pods, flat, thick and remarkably tender. A first-class pole variety.

LAZY WIFE—Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless of unusually rich flavor. Dry beans, pure white, excellent for winter use.

OREGON GIANT GREENPOD—The large fleshy pods 10 to 12 inches in length are free from all stringiness and are tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home gardens and for canning. "Oregon Giant" is a strong grower and yields heavily, bearing its enormous pods in great clusters. The color is a light greenish yellow, splashed red. **Pkt. 15c; ½ lb. 30c; lb. 50c, postpaid.**

KENTUCKY WONDER WAX—The pride of the Garden. It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious beans. They are firm, entirely stringless, and when cooked, deliciously rich and buttery.



OREGON POLE LIMA

OUR SEED BEANS and PEAS ARE HAND PICKED

For BEANS use 350 pounds per acre of our **Diamond VEGETABLE FERTILIZER.** Ask for our Free Booklet "Fertilizers"

DANISH BALL HEAD

CABBAGE

CULTURE—The requisites for complete success are: First—Good seed. There is no other vegetable where the seed has so much influence on the quality of the product, and gardeners should always use the best procurable. Second—Rich, well prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deeply.

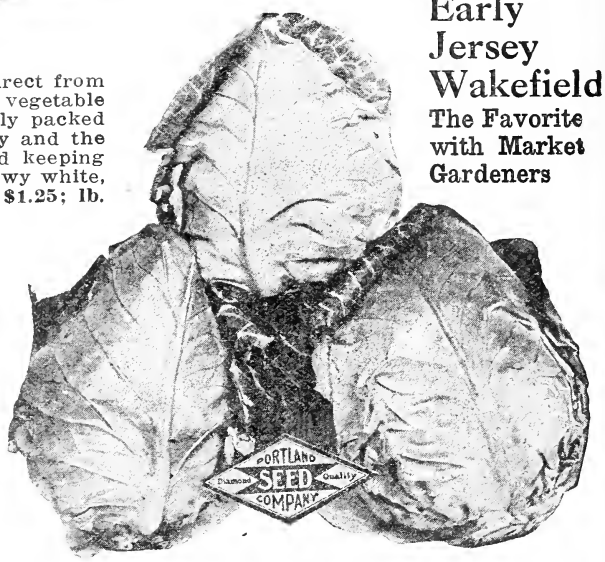
In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing to outside air, and as early as the ground is in good condition, transplanted, setting 18 to 36 inches apart, according to size of variety. The late Autumn and Winter varieties may be sown from the middle to the last of Spring and transplanted when 4 to 6 inches high. Shade and water the late sowings in dry weather to get them up.

DANISH BALLHEAD—Our strain of short-stem is imported direct from Denmark, originating on the famous island of Amager, the vegetable garden of Copenhagen. The fine ribbed leaves are so densely packed together that no space is left for water or air to start decay and the firm solid heads are famed for their superior excellence and keeping qualities. Matures late and when cut shows a fine, hard, snowy white, solid head. The best in its class. **Pkt. 10c; oz. 35c; ¼ lb. $1.25; lb. $3.75, postpaid.**

DANISH ROUND HEAD (Select Short-Stem)—A round ball shaped cabbage of great solidity. Color, rich dark green, has few outer leaves, is very hardy and a profitable late market variety. Our stock of Round Head is Danish grown and of the same superior quality as the short-stem Ballhead, being one of the latest keepers and best varieties for early Spring market. **Pkt. 10c; oz. 40c; ¼ lb. $1.35; lb. $4.00, postpaid.**

COPENHAGEN MARKET—A Splendid Cabbage for Home Gardens—A splendid early globe-shaped Cabbage slightly flattened. The large solid heads are very uniform, with few outer leaves, keeps well and stands handling. Copenhagen Market is the favorite market variety, and we recommend it to our customers as the best early round head. **Pkt. 10c; oz. 35c; ¼ lb. $1.25; lb. $3.75, postpaid.**

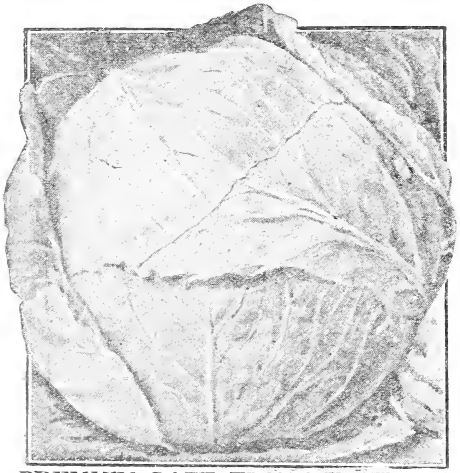
EARLY JERSEY WAKEFIELD—The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for Wintering over and very early setting. Grown more extensively for market than any other early cabbage. Is always of good size, very solid, and has but few outside leaves; a reliable header and always gives good satisfaction. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00, postpaid.**



Early Jersey Wakefield
The Favorite with Market Gardeners

RED CABBAGE—Odense Market—Used for pickling. The heads are very fine and remarkably sure heading. The best red cabbage. **Pkt. 10c; oz. 35c; ¼ lb. $1.00; lb. $3.00, postpaid.**

SAVOY CABBAGE—Vertus—Late Savoy—Large, compact heads, crisp and tender with a rich flavor. Desirable for cooking or salads. **Pkt. 10c; oz. 35c; ¼ lb. $1.25; lb. $3.75, postpaid.**



PREMIUM LATE FLAT DUTCH—This improved strain possesses the good qualities of the old favorite, "Late Flat Dutch," one of the largest of the late varieties; a sure header. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00, postpaid.**

STEIN'S EARLY DWARF FLAT DUTCH—Grows low on the stem; a sure header; firm fine grained, tender. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00, postpaid.**

SUCCESSION—Heads large, slightly flattened; grows low on the stem. **Pkt. 10c; oz. 30c; ¼ lb. $1.35; lb. $3.00, postpaid.**

CHINESE IMPROVED OR PE-TSAI—The strain we offer resembles when well grown Cos Lettuce rather than Cabbage. It is often called Celery Cabbage on the market. The leaves when young are crimped, of light green color and appear like smooth leaved mustard but with much broader and heavier midribs. The plant as it matures becomes more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white midribs. It is of distinct flavor, very mild and pleasant. It is served as a salad like lettuce or cooked like asparagus. Sow in this latitude after July 1st at the same time as turnips. **Pkt. 10c; oz. 40c; ¼ lb. $1.35; lb. $4.00.**

CHINESE PE-TSAI

BRUSSELS SPROUTS

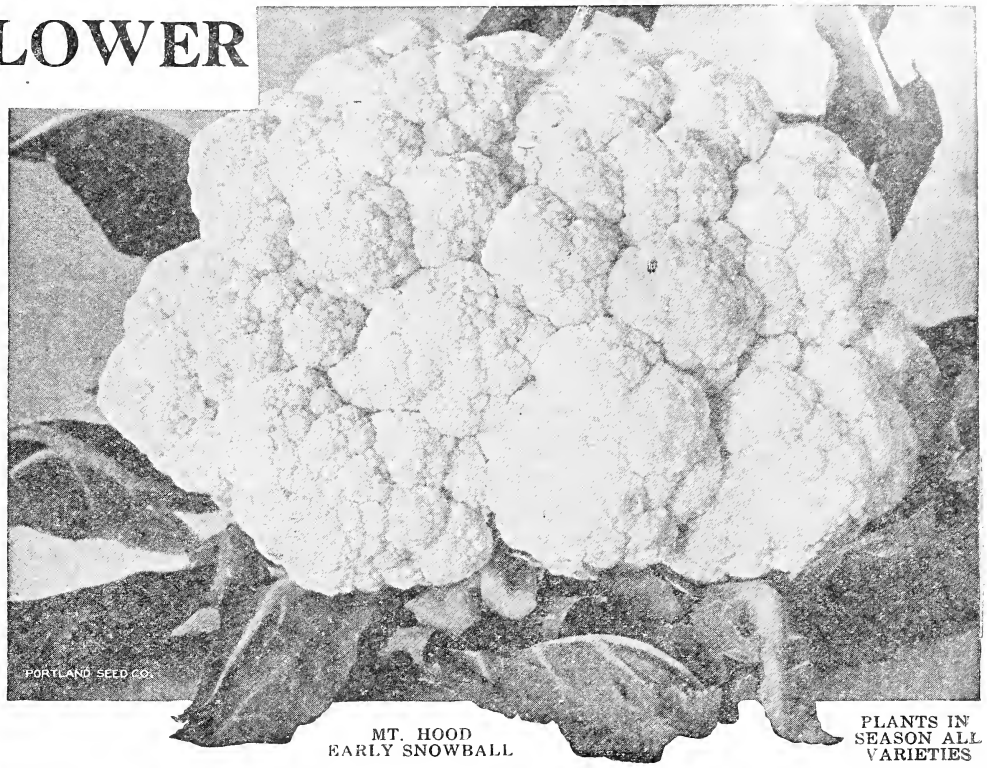
Grow two or three feet high, and produce, from the sides of stalks, numerous little sprouts, which resemble very small cabbages one or two inches in diameter. The leaves should be broken down in the Fall to give the little heads more room to grow. Should be treated like Winter Cabbage or Kale.

DWARF IMPROVED—A carefully grown strain, very hardy and giving compact, round sprouts of large size and good quality. Pkt. 10c; oz. 35c; ¼ lb. $1.15.

CAULIFLOWER

Don't Buy cheap strains of Cauliflower seed. Only the best select strains can be depended upon to produce a big percentage of large, white, solid heads.

CULTURE—The Cauliflower succeeds well in any soil where cabbage will grow, but best results are obtained in rich loam with an abundance of water. By sowing early varieties in a hot bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply, sow seed in a prepared bed in May, choosing a cool, moist place. When large enough transplant, making the rows about 2½ feet apart and 18 inches between plants. In dry seasons the crop must be watered



MT. HOOD EARLY SNOWBALL

PLANTS IN SEASON ALL VARIETIES

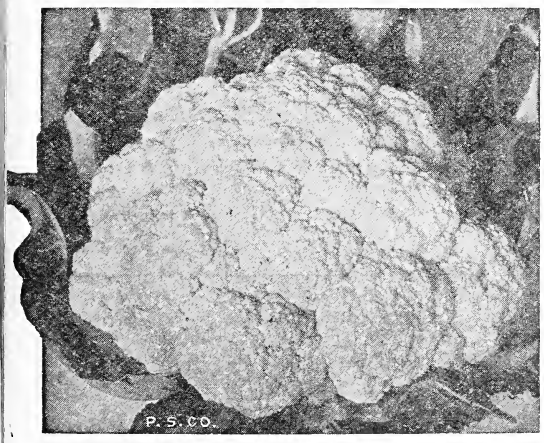
P. S. CO'S "MT. HOOD" SNOWBALL—The seed that produces those handsome large white solid heads that bring big profits to the gardener. We offer our "Mt. Hood" Cauliflower seed under our own label, it having been carefully selected and grown for us by one of the expert Cauliflower growers, and is the best strain of "Early Snowball" obtainable. We recommend "Mt. Hood" Snowball for either early or late planting. **Pkt. 25c; ¼ oz. $1.00; oz. $3.50; ¼ lb. $12.00, postpaid.**

DANISH GIANT—DRY WEATHER CAULIFLOWER—Early, large, solid white Cauliflower that can successfully withstand a drouth that would prove fatal to other varieties, but like all cauliflower must have rich soil and cultivation to give best results. Also does well under moist conditions. **Pkt. 25c; ¼ oz. $1.00; oz. $3.50; ¼ lb. $12.00, postpaid.**

EARLY SNOWBALL—This is the regular grade of "Early Snowball" that is generally offered, and while it will not give as good results as "Mt. Hood," it can be depended upon to produce a good crop. **Pkt. 15c; ¼ oz. 65c; oz. $2.25; ¼ lb. $6.50, postpaid.**

LARGE ALGIERS—A valuable late sort, sure to head, of the best quality and very popular with market gardeners. Plants large, upright growth, the leaves protecting heads so that they will endure, uninjured, a frost that would ruin other sorts. One of the very best of the late varieties. **Pkt. 10c; ¼ oz. 35c; oz. $1.25; ¼ lb. $4.00, postpaid.**

AUTUMN GIANT—Heads white, large, compact and protected by foliage. **Pkt. 10c; ¼ oz. 35c; oz. $1.25; ¼ lb. $4.00, postpaid.**



ST. VALENTINE BROCCOLI

BROCCOLI or Winter Cauliflower

Broccoli is so nearly related to late Cauliflower that the varieties are often listed under both heads—the principal difference being in the hardiness and time of maturity, Broccoli not heading until late Winter or early Spring. Culture is same as for late Cauliflower, and good, rich, well-drained bottom land is best, or well-tilled, well-fertilized upland.

ST. VALENTINE—The finest of All Broccoli—This grand new strain introduced by us is a sure header of immense size, finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties. **Pkt. 15c; oz. $2.25; ¼ lb. $6.50, postpaid.**

EARLY LARGE WHITE FRENCH—A valuable variety with large, white heads, firm and of good flavor. **Pkt. 10c; oz. 90c; ¼ lb. $3.00; lb. $9.00, postpaid.**

CHERVIL

Can be planted any time in the early spring. The leaves should be kept cut, and if not allowed to run to seed, will keep green for a long time. Makes an excellent plant for garnishing.

CURLED—Very finely curled, somewhat resembling parsley and used in same manner. **Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. $2.50, postpaid.**

CHIVES

Chives belong to the onion family and the tops are used green for flavoring and garnishing. They grow in little clumps and can be supplied as plants any time in the early Spring. See Plant Department.

COLLARDS

SOUTHERN GEORGIA—This variety is the old-time favorite. Stands all sorts of adverse conditions without injury. Very hardy. **Pkt. 10c; oz. 20c; ¼ lb. 65c; lb. $2.00, postpaid.**

CHICORY

The roots, dug in the Fall, dried, cut in thin slices, and ground, are used largely as a substitute for coffee. Seed should be sown quite thinly in shallow drills early in the Spring. When well started, thin out to stand 2 or 3 inches apart in the row. **Pkt. 10c; oz. 40c; ¼ lb. $1.35; lb. $4.00, postpaid.**

CARROTS

CULTURE—A sandy loam is the best soil for the carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that the soil is well firmed above the seed.

P. S. CO.'S NEW CORELESS — CHANTENAY — DANVER'S HALF LONG

P. S. CO.'S NEW CORELESS — A splendid new carrot. Larger than other early varieties. Crisp, solid, of fine flavor and almost coreless, grows smooth and uniform, a true stump rooted type. The very best for canning or drying as it is nearly coreless and has no tap root to trim off and waste. Holds its color and cooks quickly. The ideal carrot for home gardens. **Pkt. 10c, oz. 20c; ¼ lb. 45c; lb. $2.25.**

IMPROVED LONG ORANGE—Popular for farm use on deep, mellow soil. Our stock is an improvement obtained by years of careful selections of the best formed and deepest colored roots, which grow to a large size, some specimens averaging 12 inches in length. Enormous crops can be grown under fair culture; one of the best varieties for feeding stock. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.**

CHANTENAY—The Market Gardener's Favorite. Tops, medium sized; necks, small; roots, tapering slightly but uniformly stump-rooted and smooth; color, deep orange red; flesh, very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any; is a heavy cropper and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort. **Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. $1.00.**

OXHEART—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.**

DANVER'S HALF LONG — Grown largely on account of its productiveness and adaptability to all classes of soil. Tops, medium sized, coarsely divided. The smooth, handsome roots are of medium length, tapering uniformly to a blunt point; flesh, sweet, crisp, tender; deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.**

EARLY SCARLET HORN—The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop. **Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. $1.00.**

STOCK CARROTS

CARROTS, aside from being one of our most useful and easily grown garden vegetables, are invaluable for stock feeding. They are greatly relished, promote health and put a sleek coat on cattle and horses, giving a well-kept appearance. Dairy and stockmen should grow them extensively. For their special use we recommend our "Yellow Giant."

P. S. CO.'S YELLOW GIANT, Specially Adapted to Moist, Heavy Soils—This new Carrot was originated at the Sydney, Australia, Experimental Station, and has proved itself to be the earliest and most productive stock carrot offered to date. It is a half long variety, with an Immense broad shoulder. The Carrot penetrates less than one-half the depth into the ground, which saves about one-half the expense of harvesting the crop. The color is of bright yellow, and is perfection itself for giving the proper color to butter. Every dairyman who wants a big crop of carrots of the right quality and easy of culture should plant our Yellow Giant. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 85c.**

LARGE WHITE BELGIAN—Extensively grown for stock feeding; very productive. Grows so much above the ground that the entire crop can be pulled by hand. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 80c.**

IMPROVED SHORT WHITE—"MASTODON." Ranks as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly at the point; color, light green at the crown, white below; flesh, rich, white, solid, crisp and of excellent flavor. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 80c.**

CELERY

GOLDEN YELLOW SELF-BLANCHING — This is no doubt the best celery for early Spring market use. Plants are of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier. **Pkt. 10c; oz. 80c; ¼ lb. $2.25; lb. $8.00.**

WHITE PLUME — The Leading White Celery. A handsome crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves and heart are white. **It is the earliest celery known. Pkt. 10c; oz. 35c; ¼ lb. $1.00; lb. $3.50.**

WINTER QUEEN — This is without doubt the most valuable variety of celery for Winter and Spring use ever introduced. Has double the amount of heart of any known celery. The plant has a fine appearance, of compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and a delicious nutty flavor. Stored for Winter or Spring use, it is an excellent keeper and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

GIANT PASCAL—Largest variety grown; of fine, nutty flavor; very easily blanched. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

CELERY SEED FOR FLAVORING
oz. 10c; ¼ lb. 20c; lb. 65c

WHITE PLUME CELERY

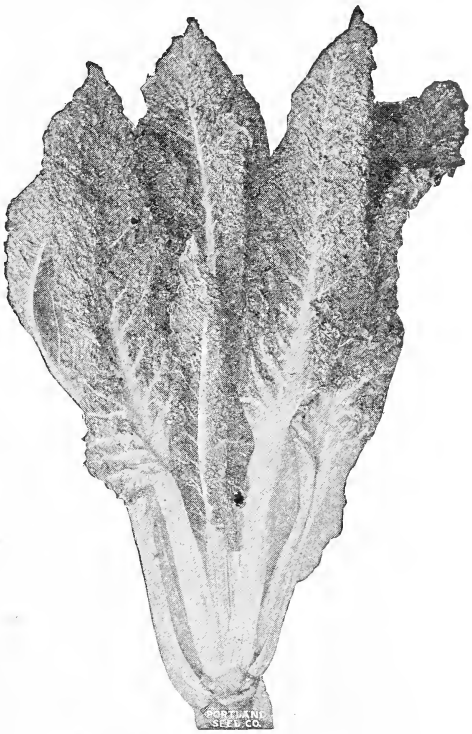
CELERY CULTURE

Sow the seeds early, about February, in a hot-bed or cold frame. When 3 inches high transplant, setting them 4 inches apart. When grown 6 inches, and fine, stocky plants, set in richly manured, deep soil, in rows 3¼ feet apart and about 9 inches from plant to plant. Water if dry weather follows transplanting. During the next two months all the attention that is required is to keep down the weeds. Blanch by placing boards along the rows, or earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in Autumn. Never hoe up the earth when plants are wet. One ounce of seed produces about 6,000 plants.

To Succeed with Celery you must keep your plants growing constantly while young, if you allow them to "stand still" they will run up to seed later. Always cultivate as soon after watering as the ground is dry enough to work well. Fertilize heavily in the Spring—and use nitrate later if needed.

CELERY PLANTS

We have large healthy transplanted celery plants in the standard varieties for delivery in season. Any quantities. **Write us for prices, or see Plant Department, page 69.**



CELERIAC

TURNIP ROOTED CELERY—Large Smooth Prague. Improved form with very few side roots. The largest and best variety. **Pkt. 10c; oz. 30c; ¼ lb. $1.00.**

CORN SALAD

FETTICUS, or LAMB'S LETTUCE—A refreshing salad, used extensively in Winter and Spring as a substitute for lettuce. It is often cooked like spinach. Sown in drills 1 foot apart, in the Spring or Fall. On the approach of cold weather cover over with straw or coarse litter. **Pkt. 10c; oz. 30c; ¼ lb. $1.00.**

CRESS

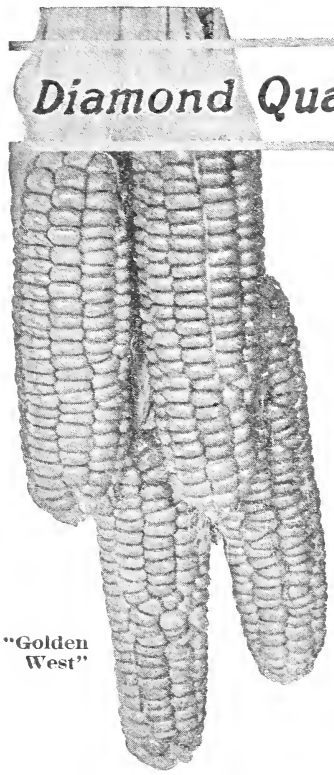
CURLED, or PEPPER GRASS—This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

ALL PRICES ON THIS PAGE ARE POSTPAID

SWISS CHARDS

NEW SAVOYED LEAF "LUCULLUS"—An improved variety of "Swiss Chard," growing about two and a half feet high. The heavy stalks are over an inch thick and bare for more than a foot of their length. The leaves make the finest of "greens." By cutting back the leaves close to the ground tender shoots spring up quickly, these or the midrib are very delicious cooked as asparagus. Swiss Chard is hardy, easily grown and should be in every garden. It is one of the most delicious of all vegetables. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

Diamond Quality SWEET CORN



"Golden West"

CULTURE—Sweet Corn should not be planted until the ground is warm, as the seed will rot in cold, damp soil, or if planted too deep. Late April is early enough for first plantings and for succession plant every two weeks through May and June. Cover the first planting very lightly, increasing the depth a little for the later plantings. For the Dwarf Early varieties, rows should be three feet apart; for later large varieties, four feet and the hills two or three feet in the rows.

Sweet or Sugar varieties are used both for table and stock feeding, some of the large later sorts being preferred for silos and fodder.

YELLOW VARIETIES

GOLDEN EVERGREEN SWEET CORN—A splendid yellow sweet corn noted for its excellent qualities. It is a cross between the Golden Bantam and Stowells Evergreen but is much larger than the Golden Bantam and more productive, yet retains the tender skin of the Evergreen. Comes in just right in season to follow the first early sorts. The color is a rich golden yellow with ears 8 to 9 inches long, well filled from butt to tip with good juicy kernels of most delicious flavor. The stock we have is **western grown** and we feel confident will prove a most popular variety for this section. **Packet 15c; ½ lb. 25c; 1 lb. 40c; 10 lbs. $3.50.**

GOLDEN GIANT SWEET CORN—A large yellow sweet corn, much larger than the Golden Bantam which it resembles somewhat. It has real merit and has proven an excellent sort for successive planting. This variety grows to the height of about 5 feet and usually bears two good eating ears. They are from 9 to 10 inches in length and well filled from tip to butt. **Packet 15c; ½ lb. 25c; 1 lb. 40c; 10 lbs. $3.50.**

Prices Sweet Corn, Unless Otherwise Noted Postpaid, Pkt. 15c; ½ lb. 25c; 1 lb. 35c; 10 lbs. $3.00

GOLDEN WEST—A selection from the original strain of Golden Bantam. Produces a larger ear, has a more vigorous growth, and by continued careful selection, improves yearly. **"Golden West"** is extremely hardy, can be planted earlier than other varieties, and, being of dwarf habit, can be planted closer than other sorts. It is the very best corn for market or home gardens, where earliness and quality are considered. The color is a rich, creamy yellow, deepening to golden as it matures.

GOLDEN BANTAM—The original yellow sweet corn. Does not grow quite as large an ear as our "Golden West," but has most of its good qualities; early, productive, sweet and rich.

WHITE VARIETIES

EARLY PORTLAND MARKET—One of the earliest large eared varieties. Large, sweet, plump grains of purest white on well filled ears; a good market variety. Ears large but stalk not considered a rank grower.

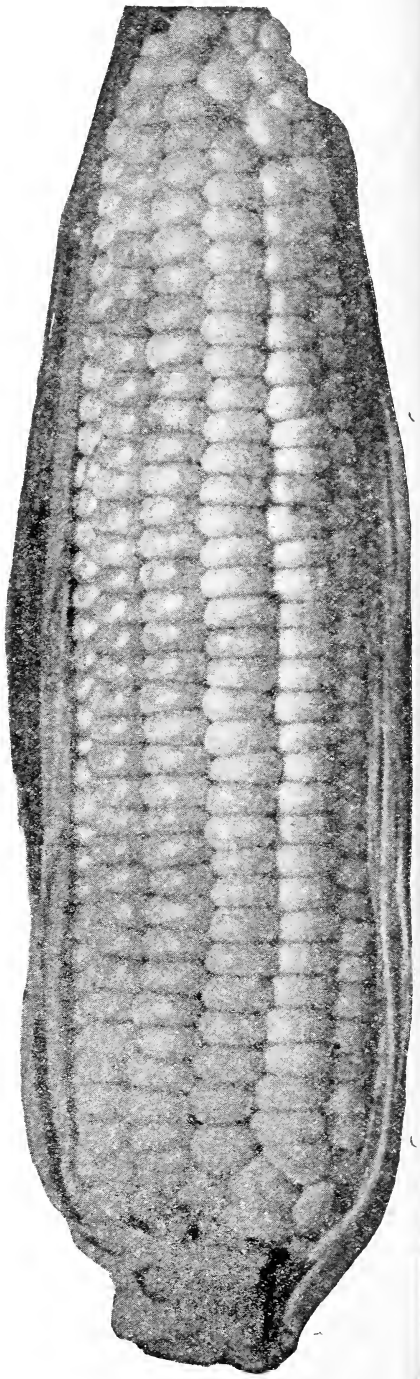
OREGON EVERGREEN—We offer "Oregon Evergreen" as the finest main crop Sweet Corn. The flavor and sweetness have not been excelled and the extreme whiteness of the large ears makes it very beautiful and valuable for canning. It is large and the stalks produce more ears than any other variety and have a very heavy husk over the grains, protecting them from insects and keeping the ear fresh a long time after cutting. "Oregon Evergreen" is a hardy, vigorous grower and is the ideal Corn for market gardeners.

STOWELL'S EVERGREEN—Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive and the best late variety for general use.

EARLY MINNESOTA—This old and deservedly popular variety is one of the best early sorts for the market and the private garden.

COUNTRY GENTLEMAN—The sugary sweetness and delicious flavor make this old-time favorite one of the most desirable varieties. The slender white irregular kernels are very long, the cob small making much more to the ear than other varieties.

BLACK MEXICAN—An old favorite still in good demand on account of its quality and sweetness. A good variety for home gardens.



Golden Evergreen

Have Green Corn the Whole Season Through

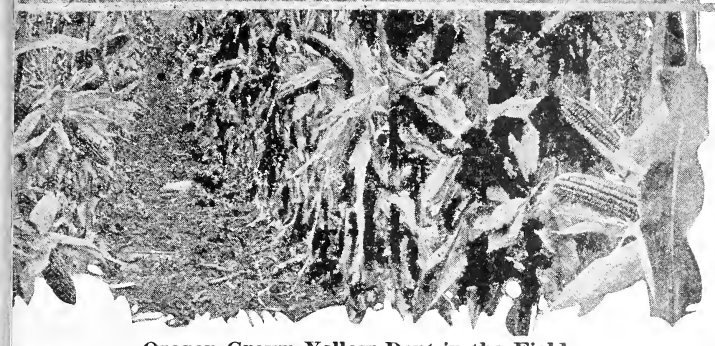
Here is a splendid combination for succession of crop that will assure green corn all during the season. Plant in the following order:

1. EARLY PORTLAND MARKET
2. GOLDEN BANTAM
3. GOLDEN EVERGREEN
4. STOWELL'S EVERGREEN

The Acme Automatic One-Hand Corn Planter

Puts the right number of kernels just where you want them and at the proper depth. Works equally well with right or left hand. (See index.)

Diamond Quality FIELD CORN



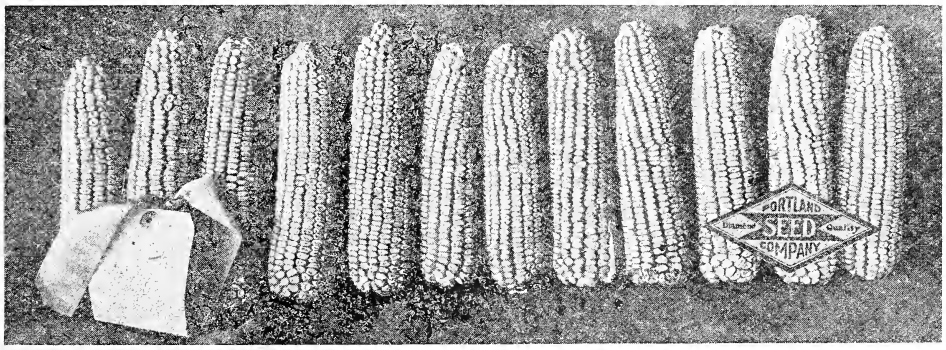
Oregon Grown Yellow Dent in the Field

SIXTY-THREE PER CENT of the feeding value of a matured corn plant is in the ear. Corn to mature properly must be adapted to the section where grown, requiring several seasons of intelligent care and selection.

Our Western Grown Corn being thoroughly acclimated will give splendid satisfaction under the conditions and for the purposes recommended —we have large stocks and can supply any amount at very reasonable prices.

CULTURE—Thorough preparation of the soil is necessary for best results, methods of culture being determined by the different conditions of soil, climate, moisture and previous crops. The ideal soil is a deep warm one with a little sand, well drained and with sufficient humus to hold the moisture.

Deep plowing is always necessary for best results, and the heavy soils on the West side of the Cascades will give best results from Fall plowing, repeating in the Spring before Seeding time. A liberal amount of stable manure and thorough tilage will help offset the cold nights. For best results when planted for grain, plant in hills 42 inches apart, alowing two stalks to the hill. For fodder or silo, three stalks, if the ground is rich.



Oregon Grown Yellow Dent—the Prize Winner

Prices Field Corn, Postpaid, Pkt. 10c; 1 lb. 20c; 10 lbs. $1.50

Special Prices per 100 pounds F. O. B. Portland on request.

OREGON GROWN YELLOW DENT—Makes a quick growth with abundant foliage, maturing early, gives a good grain yield and will make silage of the highest food content. Especially adapted to the Willamette Valley and irrigated valleys of the Pacific Northwest.

PRIDE OF THE NORTH YELLOW DENT—Has long been the standard Corn recommended by the Agricultural Stations as the best Yellow Dent for Eastern Oregon, Washington and Idaho, and our seed has given splendid results whenever conditions have been at all favorable, maturing early and yielding heavily, the foliage being luxuriant and of medium height. Especially recommended for silo.

WISCONSIN WHITE DENT — Is a large handsome White Dent, extremely early and matures perfectly.

CHAMPION WHITE PEARL — A large, White Dent variety; very popular with our dairymen on account of the great amount of green feed it makes.

MINNESOTA KING (DENT)—Smallest cob and largest grain. The ears are uniformly well filled out. Golden yellow, white capped and a good yielder, being a safe corn to plant west of the Cascades.

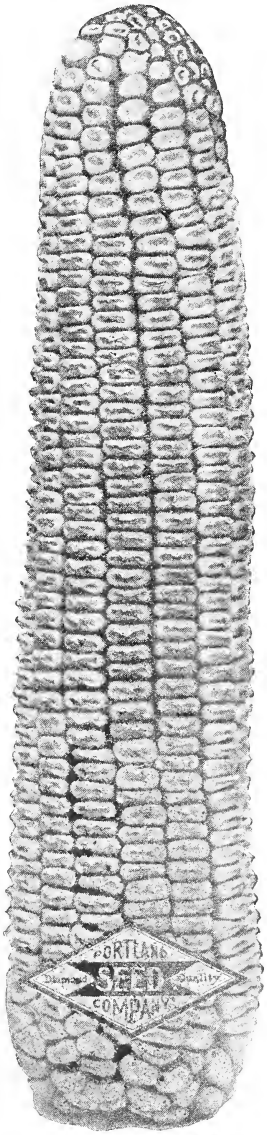
KING PHILIP—An early Red Flint Corn: well acclimated and well known.

MINNESOTA No. 13 YELLOW DENT—The earliest of the early Yellow Dent corns and reported to be the heaviest yielding, producing splendid large ears, closely filled from end to end with bright yellow kernels. Has rather a thick cob and the shelled grains have a tendency to irregularity. Will average 7 feet high and being a rapid, vigorous grower, with heavy foliage, makes a fine fodder corn, especially recommended for ensilage west of the Mountains. Will mature in ninety days under favorable conditions.

NORTHWESTERN DENT—A red corn with yellow dent or cap, and in high altitudes and the Northern sections where seasons are short will often mature a crop when other varieties fail. Owing to its frost and drought resistance, its extreme earliness and rapid growth make it valuable for late planting and for replanting. Ears are 7 to 10 inches, closely filled; grows 7 to 8 feet high. Splendid for silage.

WHITE FLINT—This valuable variety is specially adapted to Northwestern conditions. It is earlier than the well-known "Eight-Row Canada," and is to be preferred on account of its color, productiveness and very early ripening.

WHITE RICE POP CORN—Best variety for popping corn.
For Seed.....per lb. 25c.
For Popping.....per lb. 15c.



Western Grown Minnesota No. 13

As an economic feed crop, Corn is without a peer. Twenty to thirty tons of silage per acre are within the reach of every corn grower who will plant good seed, fertilize wisely and cultivate diligently. Land that is producing three to four tons of hay will produce double this amount of feed planted to corn. Progressive farmers are realizing these facts and the corn acreage is increasing rapidly from year to year.

Always remember that corn increases in food value and digestibility as it reaches the ripe stage—while other forage crops become more difficult of digestion and lose much of their food value as they ripen.

Diamond Quality CUCUMBERS

DIAMOND LONG GREEN

For Cucumbers DIAMOND FERTILIZER will repay its cost many times over. Let us send you our Free Book "FERTILIZERS"

CULTURE—Cucumbers need a warm, rich soil, and should not be planted in open ground until the weather is settled, as otherwise they will not thrive. Plant in hills 4 feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. As fast as the cucumbers attain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vines' usefulness.

"DIAMOND" LONG GREEN—The leading large variety. Fruit from 10 to 12 inches long, dark green, crisp and tender. A good variety for slicing, and when matured they are best for sweet pickles. We offer our "Diamond Strain"—they will grow long and uniform in shape. **Pkt. 10c. oz. 20c; ¼ lb. 65c, lb. $1.90.**

IMPROVED WHITE SPINE—One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome; light green, with a few white spines. **Pkt. 10c. oz. 20c; ¼ lb. 50c, lb. $1.50.**

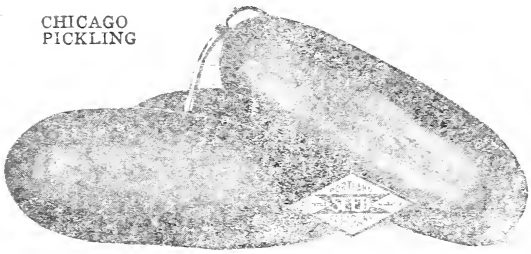
SHORT GREEN, OR EARLY FRAME—An excellent sort for both table use and pickling. Fruit straight, small at each end, bright green, with crisp, tender flesh. Comes into use a little later than the Early Cluster and keeps green a long time. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

"THE DAVIS PERFECT" CUCUMBER—The **"Davis Perfect"** is of perfect form, large size and of the finest color; is crisp, delicious and almost seedless. This fine variety comes from the originator of the Davis Wax Bean and is one of the most valuable varieties for home or market. The **"Davis Perfect"** is as handsome, grown outside, as any hothouse cucumber. **Pkt. 10c, oz. 20c, ¼ lb. 50c. lb. $1.75.**

TELEGRAPH—FORCING—A standard forcing variety, very popular with gardeners. Fruit 14 to 16 inches long, of very fine quality. A sure and heavy cropper. **Pkt. 25c.**

JAPANESE CLIMBING—A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor. **Pkt. 10c, oz. 20c, ¼ lb. 50c.**

CHICAGO PICKLING

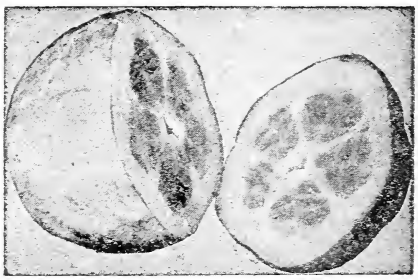


CHICAGO PICKLING CUCUMBER—One of the most popular of the small early pickle varieties. It has square ends, smooth skin, is enormously productive and very disease resistant. The ideal type for very early uniform pickles. The fruits average 6x2¼ inches when fully developed. **Pkt. 10c, oz. 20c, ¼ lb. 40c.**

SNOW'S PERFECTION CUCUMBER—This variety is rather like the Chicago Pickle except that it is smaller. It is one of the most smooth, symmetrical pickle kinds grown and is highly recommended for its uniform early pickles. The fruits average 5x2½ inches in size. It is enormously productive and the square ended pickles are very attractive. **Pkt. 10c, oz. 20c, ¼ lb. 45c.**

BOSTON PICKLING OR GREEN PROLIFIC—Color, bright green, and a great producer. The fruits average 4 to 5 inches in length when large enough for slicing, and are of excellent quality, but it is for producing medium sized pickles that this variety is so highly esteemed. **Pkt. 10c, oz. 20c, ¼ lb. 40c, lb. $1.35.**

LEMON CUCUMBER—This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. The Lemon Cucumber is so prolific that a single vine will be ample for the needs of the average family. It is also said that the Lemon Cucumber can be eaten without fear of the harmful results that some experience from eating cucumbers. **Pkt. 10c, oz. 25c. ¼ lb. $2.50.**



LEMON CUCUMBER

Our Booklet "FERTILIZERS" tells what you should know about Fertilizers — what they are for, and when to apply — and is mailed free on application.

HINTS ON FERTILIZING THE GARDEN

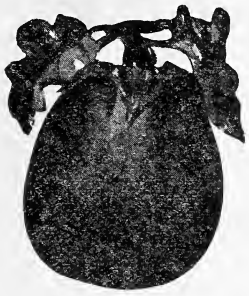
Where no manure is used the fertilizer should be spread over the surface of the finely prepared seed bed at the rate of five pounds for a plot ten feet square, just before planting. The surface soil should then be thoroughly raked so as to mix the fertilizer evenly to a depth of two inches. Never place seed or transplanted plants in direct contact with fertilizer.

Thoroughly mixing of the fertilizer with the soil is essential to prevent injury of seed or roots.

Tomatoes, Potatoes, Spinach and some other crops requiring rather long growing seasons, are materially benefited by a second application of fertilizer when half grown. Side dressings of this kind should be scattered between the rows at the rate of four ounces (one-half pint) to ten feet of row, when rows are spaced two feet apart; and pro rata for rows spaced a greater or lesser distance. To insure even distribution mix the fertilizer with fine, dry earth just before spreading.

Forcing Growth—Sodium Nitrate is a very strong stimulant for young growing plants. Vegetables grown for their leaves and stems, like lettuce, cabbage, celery, etc., can be improved by a light application or two of Sodium Nitrate in the early growing period. Nitrate of Soda is readily soluble. Use one pound to a ten-quart pail of water. Apply this in small amounts some little distance from the plant. Repeat in from twenty to thirty days.

EGG PLANT



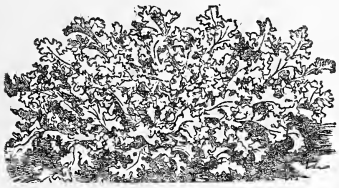
BLACK BEAUTY

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

BLACK BEAUTY—An extra early, quick-growing, vigorous variety; handsome and very uniform. Color, deep blackish purple. Splendid market sort. **Pkt. 10c, oz. 70c, ¼ lb. $2.00.**

NEW YORK IMPROVED, LARGE PURPLE—The leading market variety. Large, round, dark, excellent and the most productive. **Pkt. 10c, oz. 70c, ¼ lb. $2.00.**

ENDIVE



This is a hardy vegetable, cultivated principally for a Winter salad. Sow from May until August for a succession of crops: tie the leaves closely together to blanch them.

BROAD LEAVED BATAVIAN (Escarolle).—Has broad, thick leaves, which form a large loose head. **Pkt. 10c; oz. 15c; ¼ lb. 50c.**

WHITE CURLED—A beautiful variety, with curled, mossy leaves for early use. **Pkt. 10c; oz. 15c; ¼ lb. 50c.**

GREEN CURLED—Standard sort for Fall and Winter. **Pkt. 10c; oz. 15c; ¼ lb. 50c.**

GARLIC

CULTURE—Garlic is a profitable crop if your soil is right and proper methods of culture are employed. The sets are planted in the same manner as "Multiplier Onions," dividing the little clump, planting each bulblet thick end down, being careful not to bruise as they will rot if injured. October is the planting month in Western Oregon.

A medium loam soil containing a little sand and well drained is best and commercial fertilizer should be used. Deep and thorough preparation of the soil is necessary.

Plant in rows 14 inches apart—set 4 inches apart in the row. It requires 175 to 200 pounds to plant an acre. When approaching maturity, the tops die down and are not removed but used to braid the Garlic together for hanging up and convenience in handling. An acre should produce from two to four tons.

Write for Prices.

HORSERADISH ROOTS

For prices and descriptions, refer to Plant Department. (See Index.)

HERB SEEDS FOR FLAVORING

ANISE—Used for flavoring. **¼ lb. 15c; lb. 40c.**

POPPY—Seed used for flavoring. **¼ lb. 10c; lb. 35c.**

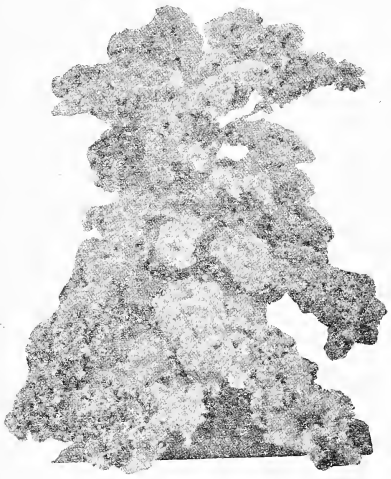
MUSTARD—For flavoring and picking. **Lb. 10c; postpaid 20c; 100 lbs. market price.**

CELERY—For flavoring. **Oz. 10c; ¼ lb. 15c; lb. 50c.**

CARAWAY—Well preserved seed for the use of Druggists, Bakers and Confectioners. **Oz. 10c; ¼ lb. 20c; lb. 55c.**

DILL—Seed and leaves used to flavor soup, stews and pickles. Leaves possess similar qualities to the seed, and can be used in the same manner. **Oz. 15c; ¼ lb. 50c; lb. $1.50.**

GARDEN KALE



EMERALD ISLE—Finest in the World—This is really the handsomest Kale that has ever come under our notice; and is entirely distinct from other strains, very hardy, of medium height, and very vigorous, throwing out new shoots as fast as the leaves are used, and will furnish excellent greens all winter. The closely curled, handsome leaves are the most attractive and of fine flavor. Fine exhibition plant. **Pkt. 10c; oz. 25c; ¼ lb. 65c.**

TALL GREEN CURLED SCOTCH—Grows about two feet high: leaves dark green, curled and wrinkled: very hardy and is improved by a slight frost. **Pkt. 10c; oz. 20c; ¼ lb. 65c.**

DWARF GREEN CURLED—Leaves beautifully curled and bright green. **Pkt. 10c; oz. 20c; ¼ lb. 65c.**

COW or THOUSAND HEAD KALE

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agriculture Colleges and Government Stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plants 3 feet apart in the row. Can be set as late as July. Write for full information on Planting and Feeding.

A quarter pound of seed will produce enough Kale plants for one acre. Postpaid, oz. 10c; ¼ lb. 30c; lb. 90c.

KALE PLANTS

For Kale plants in season, refer to Plant Department. (See Index.)

KOHL RABI

Hardy and of easy culture. Grown from plants the same as cabbage. The Kohl Rabi is a vegetable intermediate between the cabbage and turnip and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. Kohl Rabi is far superior to cabbage or turnips in the delicacy of its flavor and is a splendid addition to every garden. It should be eaten before growth ceases.

EARLY WHITE VIENNA—Very early; bulb white; best table variety. **Pkt. 10c; oz. 25c; ¼ lb. 85c.**

EARLY PURPLE VIENNA—Same as above except in color, which is purple. **Pkt. 10c; oz. 25c; ¼ lb. 85c.**

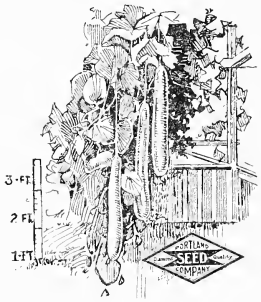
LEEK

The Leek belongs to the Onion family. Prized for soups. Cultivate same as Onions, but should be hilled up about the neck to blanch it.

LARGE ROUEN or American Flag. A large favorite American sort. **Pkt. 10c; oz. 30c; ¼ lb. $1.00.**

NEW GUINEA BUTTER BEAN

AN EDIBLE GOURD

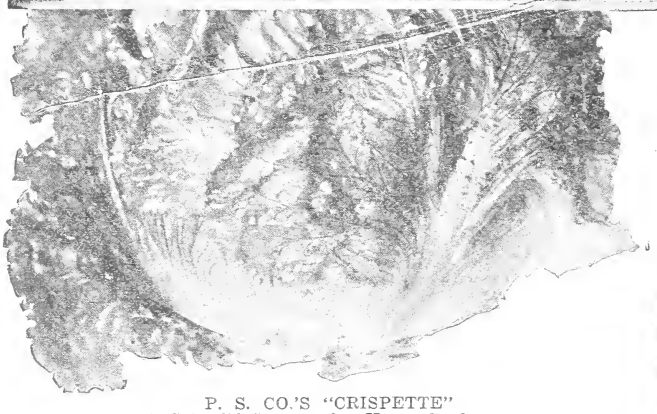


Although of recent introduction into this country, it has been a common table vegetable in China from time immemorial. Can be used as an ideal arbor covering and as a table vegetable as well. Fruits grow to be several fect in length but should be used while young, for the table, when they are even better than the most delicious marrow.

Pkt. 10c; oz. 30c; ¼ lb. 90c, postpaid.

RECIPE—Take fresh from the vine a young gourd about sixteen inches long and three inches in diameter or smaller, while the fuzzy growth is yet on. Cut into cubes about ¾ inch, bring to a boil, pour off the water once or twice; season well with pepper and salt; add butter. You will be surprised how good it is. Or use the ones from 8 to 14 inches long. Wash them. Wipe dry. Cut the round way. Dip in batter, then in flour and in batter again. Fry until tender. They are delicious. To make the batter use one egg, one tablespoon flour, and one cup milk with salt and pepper.

Diamond Quality LETTUCE



P. S. CO.'S "CRISPETTE"
A Splendid Lettuce for Home Gardens

HEADING VARIETIES

P. S. CO.'S CRISPETTE—A beautiful Lettuce, perfect in quality. The large, curly leaves, which cover the outside of the solid heads, are of a bright, light green. The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which curving strongly toward the center, makes it impossible for the leaves to open outward and expose the center, which will always be found crisp, tender, sweet and melting. It matters not whether grown to head in the early Spring or the hottest days of Summer, the leaves are always crisp and tender. **Pkt. 10c; oz. 35c; ¼ lb. $1.00; lb. $3.00.**

NEW YORK OR WONDERFUL—The Best Head Lettuce for Market Growers—The mammoth head lettuce so largely grown for shipment to distant markets, arriving in splendid condition. Immense heads, solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head. Plants should be thinned to 12 to 14 inches. **Pkt. 10c; oz. 35c; ¼ lb. $1.00; lb. $3.25.**

HANSON—Improved Hard Heading Stock—One of the very best. Heads green out side and green inside, grows to a remarkable size, very solid, deliciously sweet, crisp and tender. It withstands the hot sun well. **Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. $2.50.**

BROWN DUTCH—Forms a large, solid head; sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very hardy. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

BIG BOSTON—Very large, smooth-leaved, solid-heading variety, grown more extensively throughout the East and South than any other. It is congenial to all climates, a good shipper. In flavor it probably excels other smooth-leaved varieties. An excellent all-year Lettuce. **Pkt. 10c; oz. 20c; ¼ lb. 65c; lb. $2.00.**

MAY KING—Large growing, smooth leaved, richly flavored. Plant, light green, with round leaves, which form into a very solid, compact, round head; stands a long time without running to seed. Inner leaves blanch to a rich golden yellow. **Exceedingly rich, tender and buttery. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. $1.75.**

PARIS WHITE COS—Grows to a very large size. A solid Lettuce of the highest quality. Light green long, narrow, spoon-shaped leaves. **Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. $1.75.**

CHICKEN LETTUCE

Just the Thing for Poultry Men—This Lettuce yields an an immense amount of chicken or rabbit feed. It does not form a head but sends up stalks three or four feet high and when cut it immediately starts to grow again. The leaves can be pulled off the stem like kale. Loaded with leaves. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.35.**

ALL PRICES ON THIS PAGE POSTPAID

CULTURE—Lettuce is so extensively grown that cultural directions seem unnecessary, but we offer a few simple suggestions that may save a later disappointment, as any failure is generally blamed to the seed. This should not be, as Lettuce, like many other vegetables, requires very rich soil, plenty of water, a cool growing season and intense culture to produce the best results. If the earliest varieties are planted out in the Spring, and the weather turns dry and hot, they will run up to seed without heading. The same seed sown in the Fall or with cooler growing weather would develop perfectly. At a temperature of 40 degrees or lower Lettuce will not thrive. At 65 degrees and upward it has a tendency to run up and not head properly. For outside planting sow the seed in shallow drills from one to two ounces to the 100 yards. An ounce will produce 3,000 plants. Four pounds should plant an acre. Lettuce matures in forty to sixty days from time of planting.

GRAND RAPIDS

LOOSE LEAF VARIETIES

GRAND RAPIDS—For Early Forcing—As a Lettuce, for green-house forcing, this variety undoubtedly stands at the head of the list. Of quick growth, and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, light yellowish green leaves, slightly crimped and blistered, rather thin, good flavor, crisp and tender. It will stand shipping better than most curled sorts. **Pkt. 10c; oz. 20c; ¼ lb. 65c; lb. $2.00.**

SIMPSON'S EARLY CURLED—A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

BLACK SEEDED SIMPSON—Forms a close, compact mass, curly leaves of a yellowish green. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

TOM WATSON

ROCKY FORD—POLLOCK

KING AND QUEEN

WATERMELONS

CULTURE—Watermelons thrive best on light, well-drained soils, but give good results on any good rich garden soil properly drained and cultivated. Plant after weather is settled and ground warm. Hills 8 feet apart each way, well rotted manure worked into each hill. 1 oz. of seed will plant 30 hills, 2 to 3 lbs. per acre.

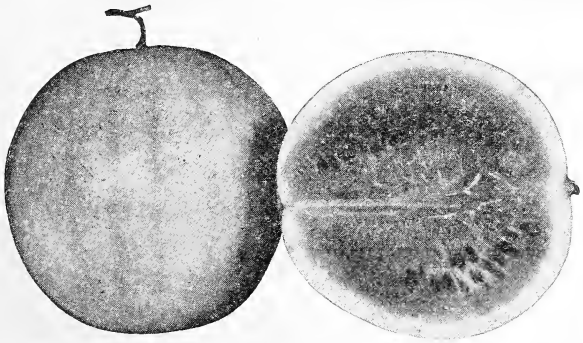
"KING AND QUEEN"—Winter Watermelon—Average weight, 25 pounds. Spherical in shape, ivory shell, pink center, seeds black. A most luscious, valuable winter melon. Very hardy, a good drought-resister. Ripens every melon in less than 120 days, and does not change its condition for ninety days if not bruised. Shell is very hard and melon ripens to within one-eighth of an inch of it.
Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50

KLECKLEY'S SWEET, or MONTE CRISTO—Splendid for home use or near markets. Vine vigorous and productive; fruit medium size; oblong shape, dark green in two shades, indistinct stripes. Flesh a beautiful rich red; exceedingly sweet and tender.
Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. $1.25

SWEET HEART—Good shipper. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green; rind thin but firm; flesh bright red, firm, solid, but very tender and sweet. Fruit retains its good quality for a long time after ripening.
Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00

TOM WATSON—18 to 24 inches in length, 10 to 12 inches in diameter, thin, dark green rind, deep red flesh, crisp and sugary, with a lusciousness and distinctive flavor that makes it one of the finest melons ever produced; hardy, early, stands handling and long shipment. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25**

PEERLESS—White Seeded—A grand favorite and standard variety. Has beautiful crimson core, always fine grained; cannot be surpassed in flavor; very prolific.
Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00



BLACK-SEEDED ICE CREAM WATERMELON—Grown extensively in Wenatchee and Yakima sections of Washington. A splendid shipping melon, does exceptionally well in any soil which grows melons. Almost round, pink meated, black seeded, a fine keeper. Drought-resistant, ripens early. Most lucious and handsome. If fond of watermelons, try this one.
Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50

ALL PRICES ON THIS PAGE ARE POSTPAID

MUSKMELONS

CULTURE—Plant in hills 4 to 6 feet apart, after frost is past and ground is warm; enrich with well-rotted manure; plant seeds just under the surface, not too deep. One ounce to 50 hills, 2 or 3 lbs. per acre. Melons thrive best on warm, light soils, but good crops are obtained on heavy ground if rich and well drained.

BURREL GEM—The Perfect Melon for Market or Home Gardens—Has a tough, thin rind, well arched ribs, covered with closely interlaced gray netting; about 4½ in. diameter by 6 in. long, flesh of reddish orange, very thick, fine grained and spicy, seed held firmly in triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon quickly decays. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50**

ROCKY FORD—POLLOCK 10-25—The latest improved popular Rocky Ford. It eliminates every defect of all other strains. Perfect in size, shape, netting, flavor, long keeping and good shipping qualities.
Pkt. 10c; oz. 25c; ¼ lb. 65c; lb. $1.95.

ROCKY FORD—Oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet, highly flavored, wonderfully uniform in shape and quality. A favorite with market gardners.
Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25

HOODOO—Grows to a convenient size. Flesh thick and firm; deep salmon or orange color.
Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.75

OSAGE OR MILLER'S CREAM—One of the finest flavored melons in cultivation, and highly recommended. Flesh rich, salmon color, very sweet and melting in quality. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25**

LARGE YELLOW CANTALOUPE—Early and productive; flesh salmon color, rich, sweet.
Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50

SMALL GREEN NUTMEG—Ripens early, flesh green, fine and sweet. Superior for early market, or family garden; a favorite for hotels and restaurants.
Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. $1.25

MUSHROOM SPAWN

With care and good spawn mushrooms can be made to pay handsomely, being grown successfully in a dry celler, under green house bench or in sheds, in a temperature of 50 to 60 degrees through the winter. Our free pamphlet gives general instructions.

NEW AMERICAN SPORE CULTURES—Produced from original spores by new French process—exclusively controlled by the American Spawn Co. The only method by which select varieties can be perpetuated and improved. Bricks weigh about 20 ounces and will plant 10 square feet. **Price per brick, postpaid, 40c; prepaid 5 bricks $1.75**

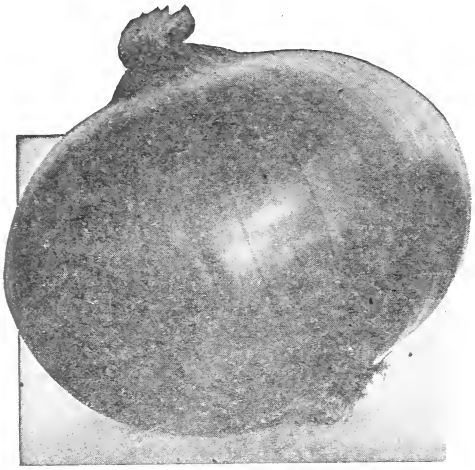
MUSTARD

The varieties we offer make the finest of greens when used alone or if combined with cress furnish a delicious salad. Sow any time in the Spring, in rows, thin out as necessary.

SOUTHERN GIANT CURLED—A fine strain of the true curled leaf.
Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c

CHINESE MUSTARD—Less pungent than other varieties. Is most delicious, thriving at the same season and under conditions that are favorable to spinach. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c**

FORDHOOK CURLED—Beautiful dark green, finely curled plumb-like leaves of distinctive flavor; superior to spinach as greens and fine for salads. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $100**



P. S. CO.'s OREGON YELLOW DANVERS
"The Perfect Onion"

ONIONS

WE are growers of Onion Seeds and Sets, and for years have been specializing on varieties that attain their greatest perfection in the Northwest and believe in our "OREGON YELLOW DANVERS" we have the finest type of Danver Onion ever offered, and **recommend it to all commercial growers.**

CULTURE—For the best results in Onion growing, soil should be deep and rich, bottom land of rather loose texture being preferred—(beaverdam soil is best).

Sow 2½ or 3 pounds of seed per acre, as early in season as ground can be put into proper condition, using good fertilizer such as our special Onion Fertilizer, or manure supplemented with Bone Meal, Muriate of Potash, and in some cases Nitrate of Soda, the latter often being used after the plants are up, while the other fertilizers are worked into the soil before the seed is sown. Hardwood ashes may take the place of the Muriate of Potash.

WHITE BUNCHING

P. S. CO.'S OREGON YELLOW DANVERS, developed in Oregon and the standard market variety in this section. The bulbs are uniformly large, half globe form, small neck, the thin, brownish-yellow skin, firm, fine grained flesh very white and mild. Produce the largest crops, ripen up hard and early, the best keepers and bring the highest price in the Coast markets. As a table or market onion has no rival. The seed we offer is produced under the most approved methods of culture and no grower can afford to plant inferior seed when we can supply **Oregon Yellow Danvers. Pkt. 10c; oz. 35c; ¼ lb. $1.25; lb. $4.50.**

YELLOW GLOBE DANVERS — The type most widely known and used as a main crop variety. A handsome, round or globe-shaped variety of large size, with thin, yellowish skin, white flesh, fine grained, mild, firm, and the best of keepers. Ripens early. **Pkt. 10c; oz. 35c; ¼ lb. $1.25; lb. $4.00.**

AUSTRALIAN BROWN — Resembles the Oregon "Yellow Danvers" in general appearance, but has a clear amber-brown skin that attracts buyers. Early, ripens uniformly, will keep in good condition longer than any other onion. For late sowing Australian Brown heads the list. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

LARGE RED WETHERSFIELD — A standard variety; one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

WHITE PORTUGAL — One of the standard Americans onions. The true type is of medium size, flat, pure white and the flesh fine-grained, firm and hard. It is late ripening and a good keeper. Used exclusively by large set growers in certain Eastern sections and by most pickle growers, for pickling onions. Used almost exclusively for White Silverskin as well. **Pkt. 10c; oz. 35c; ¼ lb. $1.25; lb. $4.00.**

PRIZETAKER — The Genuine, The Handsomest Yellow Globe Onion—Fine flavor, enormous size, perfect globe shape, bright straw-colored skin, neck very small and always ripens up hard. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

WHITE "BUNCHING" ONION—Especially useful to market gardeners for producing an attractive "green onion." The young stalks are crisp and mild, attaining a good size before the bulb forms. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

Bottom Onion Sets

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about ½ inch in diameter) planted out are ready in a short time to pull as green onions for the table or bunched for market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed. **Per lb. 20c** Write for quantity prices.

HOLLOW CROWN OR LONG WHITE

PARSNIPS

CULTURE—As the seed germinates very slowly, sow as early in Spring as possible, in drills 15 inches apart on deeply cultivated rich, loamy soil. Keep clear of weeds and thin to 3 or 4 inches apart. The roots of the parsnip are improved by freezing.

HOLLOW CROWN OR LONG WHITE—Very long, white, smooth, tender, sugary, of most excellent flavor. Very hardy; will keep through the Winter without protection. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.**

EARLY HALF LONG—Ready in ninety days. Medium sized, easily dug, has a fine rich flavor—good for home gardens. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.**

OKRA or Gumbo

IMPROVED DWARF GREEN—Very early, with long, green slender pods. **Pkt. 10c oz. 15c; ¼ lb. 35c; lb. 95c.**

WHITE VELVET—Large pods, smooth or very slightly ribbed, remain tender a long time. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.**

PARSLEY

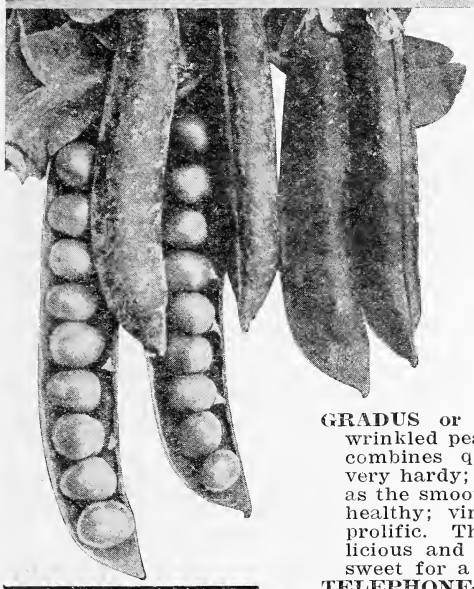
PLAIN—For flavoring and garnishing. The green leaves are used or they may be dried crisp, rubbed to a powder and kept in bottles until needed. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

EXTRA DOUBLE CURLED—The plants bear a great number of leaves, which are so abundant and so finely curled that they resemble a bunch of moss. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

TURNIP-ROOTED OR HAMBURG—The root, which resembles a small turnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

USE SEMESAN The NEW mercuric disinfectant for seed, plant and soil diseases—Increases germination, invigorates growth.

Diamond Quality GARDEN PEAS



HAND PICKED *at* OUR WAREHOUSE

Tested for Germination in OUR OWN LABORATORY

GARDEN PEAS are one of the most important crops, and we have spared no effort to select and improve the best strains of the most profitable and satisfactory varieties. These selected strains, grown under our direct supervision for many years, will give you the biggest yield and the handsomest, sweetest, best flavored Peas for early market or home garden. The varieties offered have proved by growing tests to be the best of their kind and class. **Selected Hand Picked.**

Prices on all Peas on this page postpaid
Pkt. 15c; ½ lb. 25c; 1 lb. 45c; 10 lbs. $4.00

MAIN CROP VARIETIES

Great Favorites with our Market Gardeners

GRADUS or PROSPERITY—This early wrinkled pea bears pods of large size and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth vigorous and healthy; vines 2½ feet in height; very prolific. The quality and flavor are delicious and the peas remain tender and sweet for a long time.

TELEPHONE—TALL—Our Western grown selection of this popular favorite and standard market variety is immensely productive, the extra large pods being filled with peas of the finest quality, the luscious sugary flavor not being excelled by any other variety. A strong, rapid grower, averaging 4 to 5 feet.

THOMAS LAXTON—A very early variety of great merit. Vines are vigorous, of medium height—about three feet—similar to Gradus, but darker in color, hardier and more productive. Pods are large, about four inches, with square ends, uniformly well filled and of unexcelled quality. One of the very best sorts for market and home garden.

IMPROVED STRATAGEM—One of the best of the large podded peas; the pods are of immense size filled with large, dark green, wrinkled peas of the finest quality; vine of medium height, but very stocky, with very broad, light green leaves, and bearing an abundance of large handsome pods.

For FIELD PEAS and TANGIER PEAS See Page 29

EARLY AND DWARF VARIETIES

EARLY DWARF GRADUS—Slightly earlier and more dwarf than the regular GRADUS. Vines moderately stout, pods medium green, rather large and well filled with dark green peas of exceptional quality.

LAXTONIAN—An early, dwarf, robust, large podded pea of superior excellence; growth averaging 16 inches. The large pods are well filled, holding eight to ten peas. "Laxtonian" is so highly recommended that you should give it a trial. Crop is short this year.

MARVELOUS—A most handsome wrinkled pea with dark green blunt pods, almost as large as Thomas Laxton, well filled, and of superior quality. Vines are vigorous and productive, resembling Laxtonian in habit of growth. Very prolific, and a most desirable sort for home and market garden. Season the same as Little Marvel.

LITTLE MARVEL—Splendid Dwarf Pea for Home or Market—The dwarf, bushy vines, averaging 15 inches are loaded with firm square-ended pods 2½ to 3 inches long, tightly filled with plump, luscious, deep green peas. "Little Marvel" is as early as "American Wonder," fully equals the superb quality of "Nott's Excelsior," and far outyields these two popular sorts.

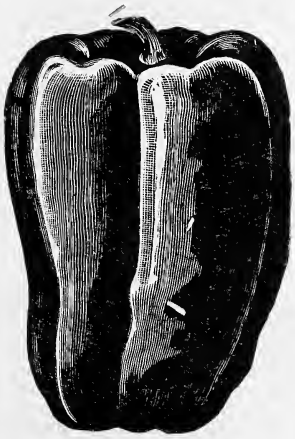
AMERICAN WONDER—One of the most popular and best of the early wrinkled sorts. A great favorite for family use. Has stout, branching vines, covered with well-filled pods containing seven or eight large, exceedingly sweet, tender and well-flavored peas. Height 10 to 12 inches.

PREMIUM GEM—Our select strain of this splendid variety is one of the earliest and best of the dwarf garden Peas. The vigorous, luxuriant vines average about 15 inches in height and are heavily loaded with well filled pods of rich, fine flavored sugary peas. Continues in bearing for a longer period than most varieties in this class. A splendid home garden pea for successive planting and for canning.

Smooth Variety

ALASKA, OR EARLIEST OF ALL—A smooth, blue pea, of even, vigorous growth and extra early maturity. Vines 2 to 3 feet high, unbranched, bearing four to seven long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for Fall or early Spring planting.

PEPPERS



CULTURE—Sow early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

NEW PERFECTION PEPPER—Unequaled for quality and sweetness, large, smooth, flesh 3 times as thick as in other varieties. Skin can be slipped off by heating or boiling a little, or pare like an apple. Growth is vigorous. Yield is heavy and continuous, bearing until frost. **Pkt. 10c; oz. 65c**

RUBY KING—Very large, sweet and mild; bright scarlet. **Pkt. 10c; oz. 65c**

LARGE BELL, or BULL NOSE—Large, mild, thick, fleshed variety. One of the best for stuffed pickles. **Pkt. 10c; oz. 65c**

CAYENNE—Pods long; bright red; very pungent and used with pickles when green. **Pkt. 10c; oz. 65c**

CHILI—Pods small and pointed; brilliant scarlet; very pungent when ripe. **Pkt. 10c; oz. 65c**

THE PRICES ABOVE ARE POSTPAID

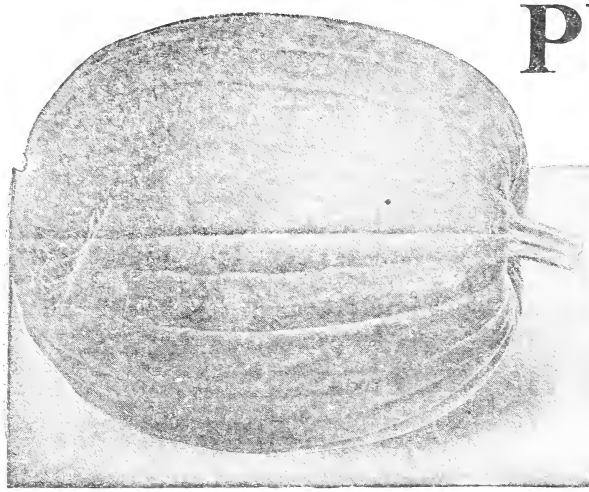
USE

DU PONT

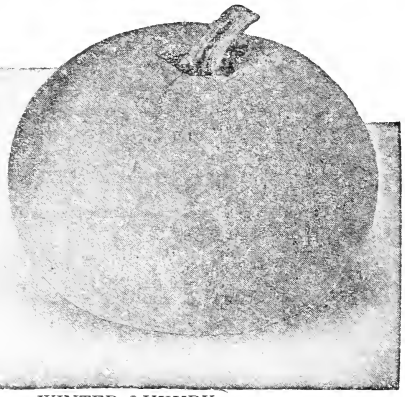
SEMESAN

The NEW Mercury Disinfectant for seed, plant and soil diseases. Particuly valuable for peas, beans, onions, etc.

PUMPKIN "DIAMOND QUALITY"



LARGE YELLOW



WINTER LUXURY

CULTURE — Pumpkins will grow on any good farm land, but their size and quality will depend on the culture and fertility of the soil. Plant early in May, in hills 6 to 8 feet apart. One pound of seed will plant about 300 hills. Care should be taken to keep the different varieties well apart, also away from other vining plants as they mix and deteriorate very rapidly.

LARGE YELLOW OR CONNECTICUT FIELD—Large, round; deep, glossy yellow. Vines vigorous and very productive; good keeper. Grown extensively for stock feeding. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. $1.00.**

GIANT OF ALL—"King of Mammoths"—This colossal pumpkin is almost a globe in shape. Skin a rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

WINTER LUXURY — The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better. **Pkt. 10c; oz. 20c; ¼ lb. $1.00.**

SWEET OR SUGAR—A handsome and productive small pumpkin; skin, orange; flesh, deep yellow, fine grained, very sweet, the famous **"New England Pie Pumpkin."** **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. $1.00.**

SQUASH "DIAMOND QUALITY"

CULTURE—Plants are tender and sensitive to cold, and planting must be delayed until settled warm weather. The principles of culture are the same as for cucumbers and melons, but squash is less particular as to soil. Plant Summer varieties 4 to 6 feet apart each way and the Winter sorts 8 to 10 feet. Three plants sufficient to a hill.

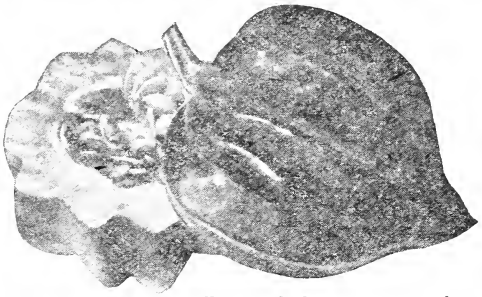


TABLE QUEEN
For Pies or Baking

TABLE QUEEN—Small very dark green acorn-shaped squash of very finest quality. Makes excellent pies, can be cooked whole when young and bakes splendidly when matured. Grows 6 to 8 inches in length and 3 to 4 inches in diameter. The small size makes it ideal for individual service when baked. Matures early, is a good keeper and extremely prolific. Also known as Des Moines, Acorn, and Danish Squash. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

SUMMER VARIETIES

WHITE BUSH—The best Summer sort for the home garden or market; very productive and of good size. **Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. $1.25.**

EARLY SUMMER CROOKNECK—Early, prolific, solid curved neck; skin yellow, thin, hard and warty; flesh tender and of good quality. Earlier and larger than the ordinary Crookneck. **Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. $1.25**

WINTER VARIETIES

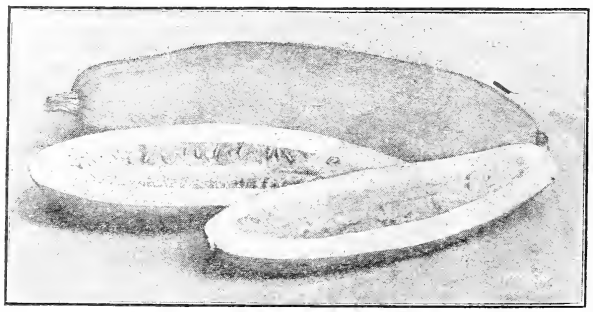
IMPROVED HUBBARD—The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Long keeper. **Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. $1.25.**

MAMMOTH CHILI—The largest of all Squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

GOLDEN HUBBARD—The same in size, shape and quality as the well known Hubbard Squash, except that it is bright red or golden color, and somewhat earlier. Good keeper. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

BOSTON MARROW—Skin yellowish, very thin; flesh dry and fine grained; of unsurpassed flavor. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

SIBLEY OR PIKE'S PEAK—Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained, with a delicate flavor. **Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. $1.50.**

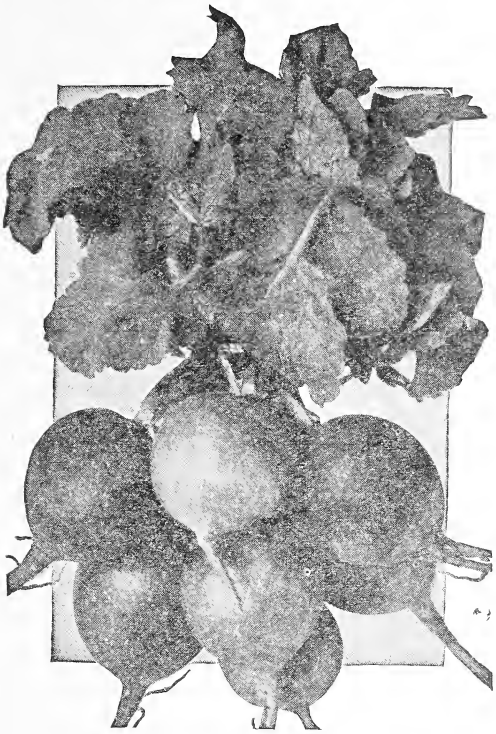


BANANA SQUASH

BANANA SQUASH—Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. Resists heat of the sun better than the Hubbard and because of its excellent flavor and splendid keeping qualities, remaining in good condition from one season to another, is superseding that variety in many localities. **Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. $2.50.**

RADISHES

CULTURE—To secure Radishes with crisp, tender flesh, grow them quickly in rich, loose soil, and gather before reaching full size. Our Radish Seed is strictly of the finest grade, being grown from carefully selected roots. Frequent plantings should be made for succession so that a supply of fresh, tender Radishes in the finest condition may be had at all times.



CRIMSON GIANT

EARLY CRIMSON GIANT—The Largest Early Scarlet Turnip-Shape Radish—An early Radish, double the size of any of the turnip-shaped type, but, notwithstanding its immense size, **does not get hollow and pithy.** The flesh is a sparkling **white, solid, crisp, juicy** and of the **mildest flavor.** The shape of bulb varies from round to almost oval, but the bright, deep crimson color of skin remains quite constant. Excellent for both forcing and open ground. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. $1.00.**

EARLY SCARLET GLOBE—A small, scarlet globe-shaped Radish, with small top and of very quick growth, very early; rich color and crisp, tender flesh. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

EARLY SCARLET TURNIP—White Tipped—A beautiful variety; deep scarlet with white tip. Very early. Has a small top, and may be planted closely. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

WHITE ICICLE—This Superb Radish is the finest and longest of the very early, pure white varieties. Planted in the Spring, ready for use in twenty to twenty-five days; the long, slender form and pure, paper-white skin most attractive when bunched for market. This Radish is not only crisp and tender when young but also **retains these qualities until the roots attain large size;** is excellently adapted for forcing purposes or successive sowing in open ground and gives a continuous supply of tender, crisp Radishes for the table or market throughout the season. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

IMPROVED CHARTIER—Roots long, tapering and attaining a very large size. Of rapid growth; remains crisp and tender until fully grown. Color, scarlet above shading into white at the tip. Flesh white and mild flavored. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. $1.00.**

CHINA ROSE WINTER—One of the best Fall and Winter varieties; a favorite with market gardeners, bright rose color; flesh white, firm and of superior quality. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. $1.00.**

White Icicle
Early, Sweet
and Crisp

RADISH MIXTURE
Just the thing for the family garden. Oz. 10c; ¼ lb. 25c; lb. 75c.

FRENCH BREAKFAST OR HALF LONG—Medium size, quick growth, crisp and tender; lower end and taproot white. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

SPINACH

CULTURE—For Spring and Summer use, sow either broadcast or in drills one foot apart and one inch deep, as early as ground can be worked, and every two weeks for a succession.

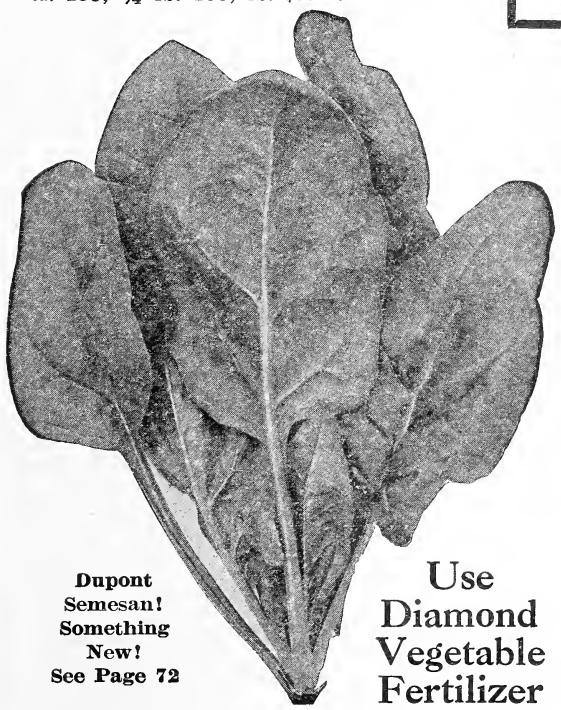
IMPROVED THICK LEAVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color, and quality when cooked. Best for market gardeners. **Pkt. 10c; ¼ lb. 25c; lb. 75c.**

KING OF DENMARK—The most valuable of new introductions of early sorts, remaining in good condition from one to two weeks after other varieties have gone to seed. Plants are of rapid growth, leaves thick and stand well after cutting. **Pkt. 10c; ¼ lb. 35c; lb. $1.00.**

SAVOY LEAVED—Bloomsdale—Very early; of upright growth; leaves pointed. Plant in the Autumn for Spring use; grows quickly. **Pkt. 10c; ¼ lb. 25c; lb. 75c.**

PRICKLY WINTER—Hardiest variety; must be sown in the Fall; seed prickly; leaves long, pointed, thick and succulent. **Pkt. 10c; ¼ lb. 25c; lb. 75c.**

LONG STANDING—An improved variety for general use; large, fleshy savoyed leaves remain in an edible condition over a long period, being very slow to go to seed. **Pkt. 10c; ¼ lb. 25c; lb. 75c.**

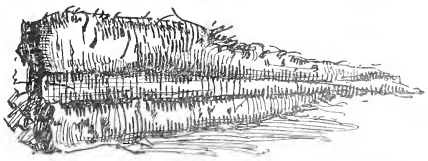


Dupont Semesan! Something New!
See Page 72

Use Diamond Vegetable Fertilizer

SALSIFY, or VEGETABLE OYSTER

Salsify is a nutritious and wholesome vegetable with a flavor closely resembling oysters, for which it is a good substitute. Sow early in Spring, in drills a foot apart; when 2 or 3 inches high thin to 3 or 4 inches. Cultivate the same as carrots. Roots are hardy, may remain in ground during Winter or be stored in dry earth or sand.



MAMMOTH SANDWICH ISLAND — Produces a large crop of straight, smooth roots. **Pkt. 10c; oz. 30c; ¼ lb. $1.00; lb. $3.00.**

Diamond Quality TOMATOES

BURBANK

THE NEWER types of hardy, prolific Tomatoes are better adapted to the cool Coast climate than the older sorts; splendid crops are now being grown where heretofore it was thought Tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your special conditions.

CULTURE—Sow early in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will produce 3,000 to 4,000 plants.

If blight appears use "Bordeaux," but it is better to use as a preventative before blight strikes the plant, and as a control measure for flea beetles, spraying the under side of foliage.

"BURBANK" TOMATO—The originator describes it as the earliest, smoothest, most productive and best early Tomato, color bright crimson, thick, smooth and firm with few seeds. Unusually heavy and of the finest quality. Keeps well; a good shipper; a prolific, continuous bearer, has the unusual and remarkable feature of being easily peeled, the skin slipping readily from the rich, firm flesh. Resistant to wilt and other diseases. **Pkt. 10c; oz. 65c; ¼ lb. $2.00.**

CHALK'S EARLY JEWEL—Large, bright red, smooth, round fruits, colored evenly up to the stem; solid, almost seedless, fine flavor. Vines are vigorous, not subject to blight, and yield fully equal to or better than Earliana. We recommend as an early Tomato for either market or home gardens; it has given us satisfaction under the varying conditions of soil and climate in the Northwest. **Pkt. 10c; oz. 45c; ¼ lb. $1.25.**

STONE—Popular with canners, growers and market gardeners. Solidity and carrying qualities are remarkable. Color a desirable red. Shape perfectly smooth and thicker from stem to blossom end than most varieties. **Very handsome and salable. Pkt. 10c; oz. 35c; ¼ lb. $1.00.**

COMET—FORCING—The very best forcing variety and a general favorite with greenhouse growers. Color is a beautiful scarlet; fruits are of good size, very smooth and uniform. **Pkt. 10c; oz. 50c.**

LIVINGSTON GLOBE—One of the best Early Tomatoes, Hardy and Blight Resistant—Fruits large, even size; very early; ripen through; always smooth, firm, round, solid meat, few seeds. Color beautiful glossy, rose-tinted purple; very productive. Is also an excellent forcing variety. **Pkt. 10c; oz. 45c; ¼ lb. $1.50.**

DWARF CHAMPION—Dwarf, upright growth; smooth, purple fruit. **Pkt. 10c; oz. 45c; ¼ lb. $1.50.**

JOHN BAER—Is the result of fifteen generations of breeding; it produces perfect, solid, high crown, brilliant red Tomatoes. They ripen ten days before Earliana, bearing 50 to 100 fruits per plant. The flavor is deliciously sweet. The plant will stand plenty of fertilizer without going to vine. Keeps well; a good shipper; a prolific, continuous bearer, and has the remarkable feature of being easily peeled, the skin slipping readily from the rich, firm flesh. Resistant to wilt and other diseases. **Pkt. 10c; oz. 50c; ¼ lb. $1.50.**

BONNY BEST—Has given splendid results wherever tried and being early, hardy, very productive, recommended for outside planting wherever Tomatoes can be grown. A good forcing variety. Fruit smooth, round, slightly flattened, solid, a bright scarlet. Quality excellent. **Pkt. 10c; oz. 45c; ¼ lb. $1.25.**

SPARK'S EARLIANA—One of the Earliest Tomatoes—Large, uniform size and beautiful red color. Ripens thoroughly all over, the stem end coloring up perfectly. Almost seedless and solid. A vigorous grower, heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for this Coast. **Pkt. 10c; oz. 45c; ¼ lb. $1.25.**

GOLDEN QUEEN—A first-class, large, smooth, pure yellow Tomato. **Pkt. 10c; oz. 50c; ¼ lb. $1.65.**

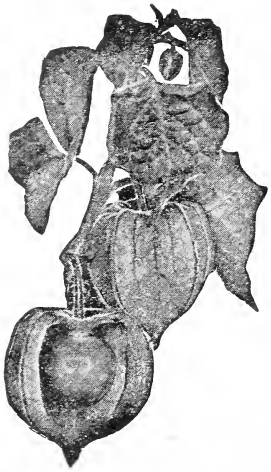
YELLOW PEAR—A small, pear- shaped Tomato, borne in great profusion, vine literally covered with clusters of fine, solid fruit; excellent for preserving. Very hardy. **Pkt. 10c; oz. 65c; ¼ lb. $2.00.**

YELLOW PLUM—Small plum-shaped, deep yellow skin and flesh. For preserving. **Pkt. 10c; oz. 65c; ¼ lb. $2.00.**

YELLOW CHERRY—Cherry-shaped fruit, deep yellow. **Pkt. 10c; oz. 65c; ¼ lb. $2.00.**

TOMATO PLANTS

Standard varieties for seasonable delivery — Healthy transplanted and pot grown plants — Safely packed and shipped to any point in the Northwest. Refer to our Plant Department (see Index).



Ground Cherry or Husk Tomato

GROUND CHERRY OR HUSK TOMATO—Grows to great perfection under ordinary culture, yielding abundantly; very much prized for preserving; the fruit grows encased in a husk. Should be in every garden. **Pkt. 10c; oz. 65c; ¼ lb. $2.00.**

TOBACCO

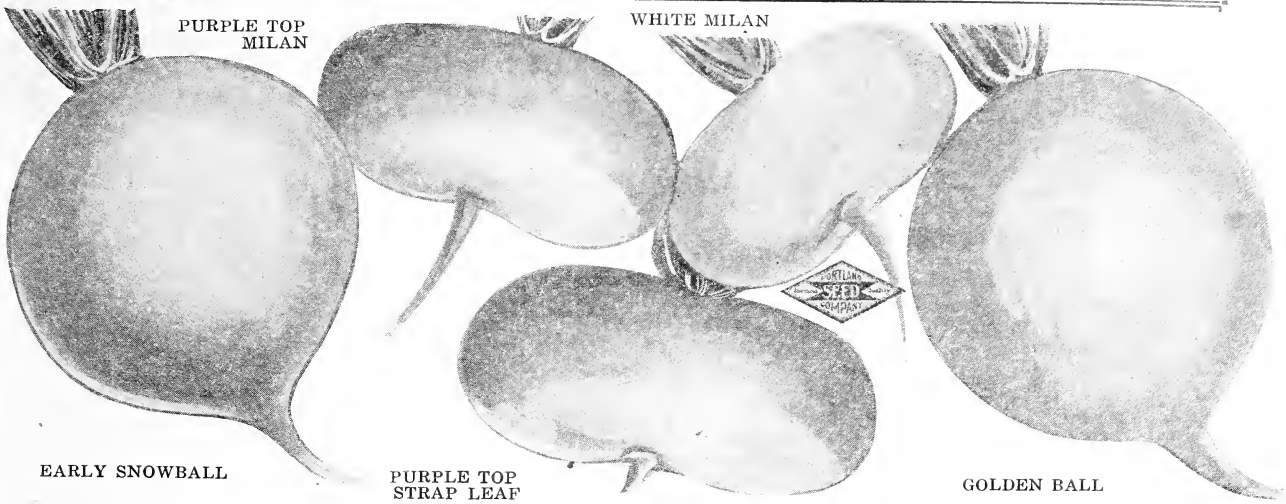
CULTURE—Sow the seed thinly in beds, as early as they can be well prepared. Cultivate thoroughly, transplanting when 6 inches high to rows 4 feet apart each way.

CONNECTICUT SEED LEAF—Hardy, and the best adapted to cool localities. **Pkt. 10c; oz. 75c.**

HAVANA—Of fine texture and delicate flavor. **Pkt. 10c; oz. 75c.**

Bordeaux Mixture

To prevent root-blight, pour a cupful of Bordeaux around the stem at the surface of the ground.



EARLY GARDEN TURNIPS

EARLY PURPLE TOP MILAN—This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap-leaved; bulb a deep purple above, white underneath; flesh white, firm and delicate. **Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. $1.75.**

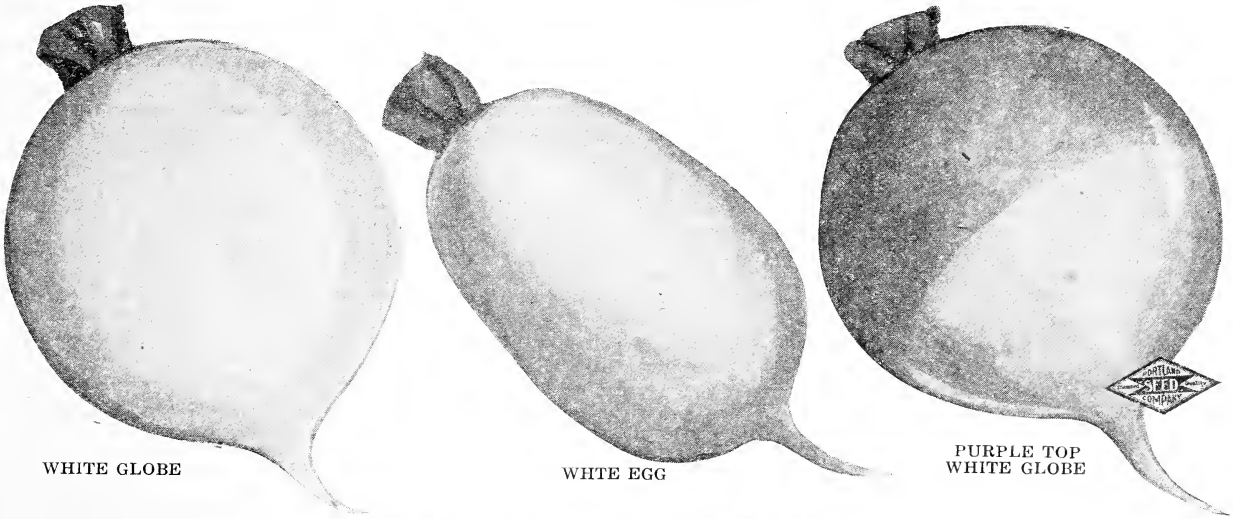
EARLY WHITE MILAN—Same as Purple Top Milan, but pure white, sweet and tender; best early market variety. **Pkt. 10c; oz. 20c. ¼ lb. 60c; lb. $1.75.**

PURPLE TOP STRAP LEAF—A leading white-fleshed variety, and one of the best, either for the family, market garden or field crop. It is medium size, and produces a large crop. The flesh is firm but tender, and of a superior rich buttery flavor. A good keeper. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

EARLY WHITE FLAT DUTCH—One of the very best and most universally grown. Small, erect top, round, flat; flesh white, firm, but very tender and sweet. Of quick growth, it is soon ready for the table and keeps well. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

EARLY SNOWBALL—Early round turnip, maturing in seven weeks, is of perfect form, snowy whiteness, crisp, solid, fine flavor. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.25.**

GOLDEN BALL—Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used by market gardeners. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**



MAIN CROP TURNIPS

COWHORN—Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

POMERANIAN WHITE GLOBE—One of the most productive kinds, and in good, rich soil, roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

PURPLE TOP WHITE GLOBE—A large, globe-shaped variety; purple above the ground. It is handsome and of excellent quality; recommended both for family garden and field crop. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

LARGE WHITE NORFOLK—A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy and may remain in the ground all Winter. Yields very large crop. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

WHITE EGG—Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta Baga, being a very choice kind for table use; of excellent flavor; sweet and mild. Pulls clean from the ground, thin skin. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

YELLOW ABERDEEN—Round, medium size; light yellow. Produces a large crop; is hardy and keeps well; flesh very firm but tender and sweet. A great favorite with dairymen. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. $1.00.**

TURNIPS—Ruta Baga or Swede

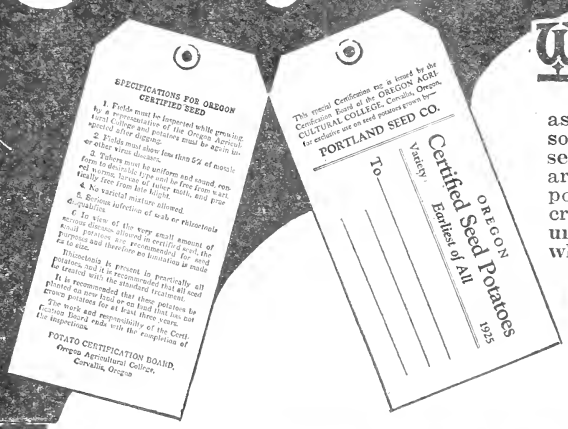
IMPROVED AMERICAN PURPLE TOP—The leading variety; large, immense yielder. Superior in every way. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

MONARCH OR TANKARD—Very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. $1.00.**

WHITE SWEET RUSSIAN—Excellent for table or stock. Very large size; white, solid, sweet and rich; keeps well. **Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. $1.25.**

All prices on this page are postpaid.

Pedigreed Seed Potatoes



We are Specialists

Our Seed Potato Improvement Work is done on those varieties which have proved standard with the buyers within as well as those out of the state, who purchase Oregon stock. We offer some of the finest seed potato stock available in the Northwest; **seed stock with a performance history behind it.** Few farm crops are more profitable than potatoes. Potatoes are of such great importance as food, giving quick cash returns and are so valuable in crop rotations, that we maintain a **separate Potato Department, under the personal supervision of a trained Seed Potato Expert—whose sole duty is Seed Potato Improvement work.**

How to tell Good Seed Potatoes

Many growers plant Potatoes which are diseased and not vigorous, because certain of our **most serious potato diseases** cannot be recognized in the tubers. For instance, a potato inspected may be smooth and shapely, large or small and show no interior discoloration, yet such a serious disease as mosaic may be present yet cannot be detected even with a microscope. The field, itself, may look healthy up to blossom time and only an experienced judge of the various potato diseases, can tell the symptoms of diseases which greatly affect yields but do not materially change the appearance of the plants. Let us take several tubers which look as nearly alike as is possible to select and plant them side by side under similar conditions and you will probably see that **each vine shows various degrees of health and vigor. It is the vine that tells the story of quality.** Therefore, one of the principal means we use in building up our seed stock so that it is capable of the **highest yields,** is to eliminate from the fields, **by hand work,** during the **growing** season, all **vines which are not healthy and vigorous,** leaving only the healthy vines under which the **Good Seed Potatoes,** with which **we supply our customers, are** found.

Profitable yields are to be had only through the planting of seed potatoes from which the **"cull making"** and **"yield-cutting" diseases** have been removed.

PROFIT LIES IN THE YIELD

This picture shows a field of our Pedigreed Potatoes grown on high ground without irrigation. Note the size of individual plants. The field received the O. K. of the Oregon Agricultural College Seed Potato Field Expert's Inspections.

OUR PRICES

Considering, as we do, our seed potato stock equal, if not superior to any seed potato stock on the market, **our price is the lowest**—consistent with the **time and effort spent in "building up"** this seed. Even if you increase your yield by a small percentage you will more than cover the cost of your seed, and good seed is capable of doubling the yield over inferior seed. Let us be instrumental in aiding you toward profitable potato growing through our Diamond Quality seed potato supply and service.

POTATO PROFITS

This table shows how slight increases in yield per hill go to make up total yields which change losses into gains

No. Hills—Per Acre Planted 15 by 36 inches	Yield Weight Per Hill	Yield Bushels Per Acre
10722	½ lb.	90.0
10722	1 lb.	178.7
10722	2 lb.	357.4
10722	3 lb.	536.1
10722	5 lb.	893.5
10722	10 lb.	1787.0

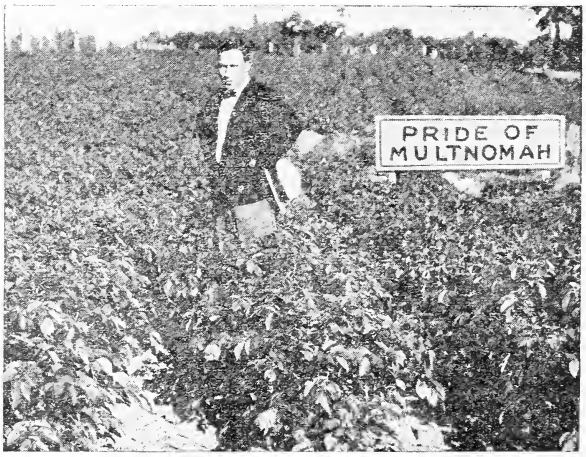
In the face of the above data is there any argument that can induce the grower striving for a profitable yield to plant potatoes which have no consistent performance record behind them?

TREATING POTATOES

Due to certain skin diseases—such as Rhyzoctonia and Scab, which are apt to be present on even the most carefully grown seed stock; treating potatoes before planting is very essential. We shall be glad to mail you full information regarding this treatment free upon request.

LET US ASSIST YOU

We are glad to offer you the benefit of our experience as growers which should be of a special value to you at this time, when there is a general awakening to the systematic, scientific purchase of seed, which shall produce a potato crop giving few culls and a profitable percentage of U. S. No. 1 grade; the new shipping grade required by Law in Oregon, and the standard with buyers in other states. Plant **Pedigreed Seed Potatoes,** true to type, containing the minimum of disease and maximum of productiveness. Start right if you hope to finish right.

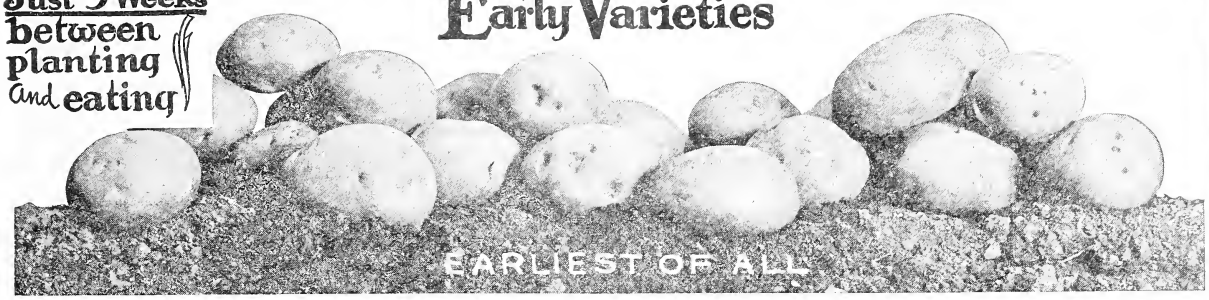


Our Potato Specialist, Lincoln Wheeler, head of our **SEED POTATO DEPARTMENT,** in our seed plot of this variety, taken early in the growing season. The field readily passed the three inspections made by the Seed Potato Expert of the Oregon Agricultural College.

Vine Tested in the Field

Just 9 Weeks between planting and eating

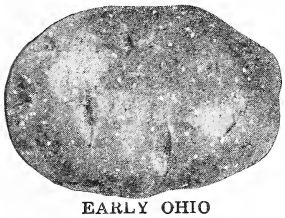
Early Varieties



P. S. Co's Earliest of all

IF YOU GROW FOR EARLY MARKET this variety leads them all—We submit our **"EARLIEST of ALL"** fields to the Oregon Agricultural College potato experts for inspection. They have passed our **"DIAMOND QUALITY"** stock as meeting their strict requirements of a certain fixed standard as regards freedom from disease and purity of variety. The tubers are of a flattened, round shape with few and shallow eyes, white skin; are exceptionally smooth, seldom making a second growth, which always insures a high percentage of marketable tubers. The tubers form close together in the hills, making digging easy. Large white blossoms easily distinguish this from some of the later varieties, the tubers of which are somewhat similar in shape. A remarkably good keeper for an early variety. An ideal forcing potato for market gardeners who grow for the high-priced early markets. Its great superiority will readily manifest itself at harvest. This is our own introduction and for years we have made "Earliest of All" our specialty and recognize no competition in this variety. BE SURE of getting the genuine "Earliest of All." **10 lbs. postpaid $1.50. Write for special low prices on quantities.**

VINE TESTED BY US—Also by Oregon Agricultural College Seed Potato Experts—DOUBLE PROTECTION FOR OUR CUSTOMERS

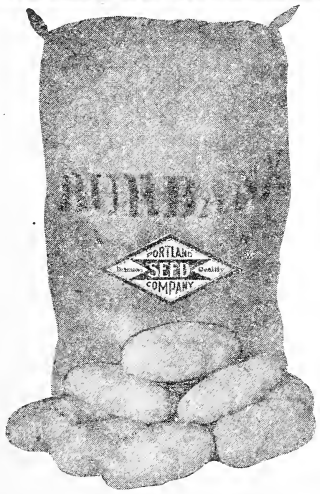

EARLY OHIO

EARLY OHIO—We offer to our customers an exceptionally fine lot of this grand old potato. Vines erect with rather heavy stems, easy to cultivate, somewhat light yielder but catches the very early markets. Tubers are cylindrical and blocky, skin pink with russet dots. They ship well as NEW POTATOES. **10 lbs. postpaid $1.25. Write for special low prices on quantities.**

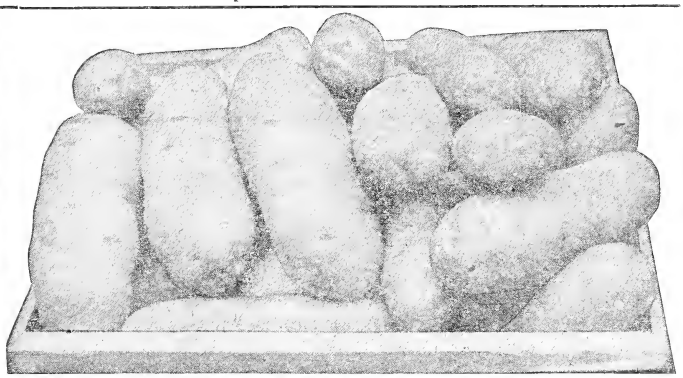
EARLY ROSE—We are not offering this season any of our own grown Early Rose stock because our past season Early Rose and seed plots proved below the standard WE set for seed potato stock. However we can supply commercial U. S. No. 1 stock. **Write for quantity prices.**

AMERICAN WONDER—Our own stock of this variety was limited and sold out before catalog went to press. We will supply the best that can be secured from other sources. **Write for quantity prices.**

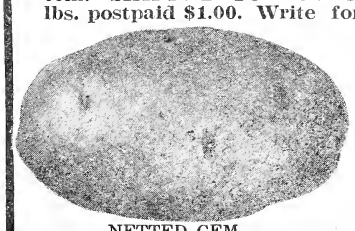
Late Varieties



BURBANK—This is the standard commercial variety. It is a very profitable potato to grow, meeting the popular demand of the Pacific Coast markets. We offer a select, true, heavy-yielding strain, rogued to our standard of type and freedom from disease. Our Burbank Seed cannot be surpassed in the West. When in doubt as to the variety to plant **Burbank** will prove your safest choice. SHIPPED IN SEALED BAGS WITH CERTIFIED TAGS ATTACHED. **10 lbs. postpaid $1.00. Write for special low prices on quantities.**



PRIDE OF MULTNOMAH—Our own introduction, which has stood the test of 16 years commercial growing with the greatest success and profit to the growers. This variety produces a tuber with thin white skin, shallow eyes, flesh snow white, the finest table quality and of the elongated type so popular in the western markets. Yields better than many other varieties under dry conditions due to its large root system. SHIPPED TO YOU UNDER CERTIFIED TAGS. **10 lbs. postpaid $1.00. Write for special low prices on quantities.**


NETTED GEM

NETTED GEM—(Russet Burbanks)—A splendid late potato that is grown extensively in irrigated sections. Tubers are elongated, russet netted skin, flesh white, shallow eyes, good keepers and produce a fine yield. Our seed stock of this variety is selected and rogued to our high standards of Seed Potato requirements, and bears the Certification Tags issued by the Oregon Agricultural College. **10 lbs. postpaid $1.00. Write for special low prices on quantities.**

ITS THE VINE THAT TELLS THE STORY

for the BEST field SEEDS

Many varieties of grasses and forage plants offered by Eastern seedsmen (often under new names) will not give profitable crops in our climate and, to avoid disappointment, we refer you to the following list, which has been carefully selected and contains the most desirable varieties. A careful reading of the following pages will give you much valuable information that has required years of observation and experimenting to obtain.

BARLEY

BARLEY is a shallow feeder the roots growing near the surface, and requires a rich, mellow soil. Responds readily to good tillage, any extra work with disc and harrow will be amply repaid. Do not try to grow upon poor, sandy or wornout soils, or where ground is not in good condition or well drained. In rotation, Barley follows Corn, Peas, Potatoes, or any cultivated crop, and is the best nurse crop for starting clovers or mixed grasses. Should be planted late after ground is warm and Spring weather settled. Plant two bushels per acre. Crimson clover planted in the Fall and plowed under after blooming in the Spring, leaves soil in fine condition for barley.

SUCCESS BEARDLESS BARLEY

SUCCESS BEARDLESS BARLEY—Brought out and featured by Pullman Agricultural College. Straw about height of common barley, stands up better than other varieties. Our crop this season contains no beard. We believe this variety will remain true to type, although we do not guarantee it to do so. Entire field showed up like cut. **Write for quantity prices. Price 10 lbs. 85c.**

NEW TREBI BARLEY—We are fortunate in being able to offer this wonderful new Barley. Many crops of Barley are ruined by early frost. The new Trebi ripens very early and there is much less danger of frost damage than with other varieties. Our growers write us that the new Trebi Barley is the heaviest yielding variety that has ever come under their observation. Large plumb berry, extra early, and we know of no better to sow for feed purpose. Its very thin hull accounts for beards coming off easily when threshed, giving grain a very fine appearance. The seed stock we are offering is of the highest quality, well cleaned, free from smut, etc. **Write for quantity prices. Price 10 lbs. postpaid 85c.**

HANNCHEN BARLEY—Early and best of the two-rowed barleys, drought resistant and sure heavy cropper. The seed stock we offer was grown from seed secured from the Oregon Agriculture College. We call special attention to the plumpness of the seed, thinness of the hull and the ease with which the beards break off. It frequently happens that these beards drop in the field before harvest. Although a Spring Barley the U. S. Dept. of Agr. has successfully grown Hannchen Barley from Fall seeding where Winters are mild. **Write for quantity prices. Price 10 lbs. postpaid $1.00.**

BLACK HULLESS BARLEY—Bearded—Best of grains for feeding or fattening stock. Greater food value than corn—Will grow on dry Alkali soil where other grains fail. Sow in Fall or Spring as late as June 15, 75 to 100 lbs. per acre. Will yield as high as 75 bushels to acre, weighing about 70 lbs. to measured bushel; does not shatter or shell out easily. When planted in Fall its abnormal stooling habit and wide succulent leaves make it ideal for late Fall pasture, yielding a full crop next season. Stock prefer and thrive on it. **Write for quantity prices. 10 lbs. postpaid $1.00.**

COMMON BARLEY—We always aim to have a nice, clean stock of good Seed Barley on hand at all times. This is the common 6-row bearded type. **Write for quantity prices. 10 lbs. postpaid 80c.**

WHITE HULLESS OR BALD BARLEY—Beardless—An early Spring variety—beardless, high feeding value, said to exceed corn as a pork producer. Can be fed to all live stock—especially valuable used in a mixed ration. Grain plump, heavy and when threshed is hulless like wheat. A heavy cropper. When grown and cut for hay it produces a magnificent fodder, very rich and almost equal to a grain feed. Culture same as Common Barley. **Write for quantity prices. Per lb. postpaid $1.00.**

BUCKWHEAT

Can be easily grown wherever wheat will grow, producing a good yield even on light or poor soil and under favorable conditions is very profitable, being in big demand for milling—also the best "bee pasture." Sow 36 lbs. per acre in drills, 48 lbs. broadcast.

COMMON—Write for quantity prices. Postpaid, 10 lbs. $1.15.

SILVER HULL—Light gray color, rounder than common; thin husk; matures earlier, yields heavily, excellent milling variety. **Write for quantity prices. Postpaid, 10 lbs. $1.15.**

JAPANESE—Ripens early and yields the largest crops. Grains extra large, dark brown, very thin hulled, makes the highest grade flour. **Write for quantity prices. Postpaid, 10 lbs. $1.15.**

Evergreen Cheat Seed

(Bromus Secalinus)—There are several varieties of Cheats. Evergreen makes hay with a green color, and its feeding value is greater than ordinary. Especially for low or moist soil, will stand considerable overflow without harm. Excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in Fall, about 100 lbs. per acre. **Price 10 lbs. postpaid 60c. 100 lbs. F. O. B. Portland $2.60.**

EVERGREEN CHEAT

FLAX SEED

Selected, recleaned, Western-grown, new crop, large plump seed. **Write for quantity prices. Per lb. postpaid 25c.**

COW or THOUSAND HEAD KALE

The demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agriculture Colleges and Government Stations. Should be grown in same manner as cabbage. Can be set as late as July. Write for full information on Planting and Feeding.

A quarter of a pound of seed will produce enough Kale plants for one acre. Postpaid, oz. 10c; ¼ lb. 30c; lb. 90c.

LENTILS—French

Excels as a food, large, smooth, light even color and very attractive. The heaviest yielding and most profitable variety to grow. Lentils can be grown wherever peas or beans can be grown and are in big demand for export. **Lb. postpaid, 30c; 10 lbs. $3.25.**

IMPORTANT—Read Carefully

We guarantee that we will give you full value for the money sent. Pound prices quoted are ready to buy, write us for special prices, stating quantity wanted; or send in your order. Clover, Grass and Field Seeds are subject to market changes, therefore we cannot print prices good for any length of time. When postpaid.

MILLETS

Sow in April, May or June, 12 to 15 pounds for seed, or 20 to 30 pounds for hay per acre.

Prices 10 lbs. $1.50, postpaid. Write for quantity prices.

GERMAN OR GOLDEN—An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the Common and yields a heavier crop of hay.

EARLY FORTUNE MILLET—Has given astonishing yields of both seed and fodder. It is very early and is claimed to be rust-proof. The fodder can be fed to horses and other stock without injury, even after the seed has formed which cannot be done with safety with most of the millets. The seed is large and of a beautiful red color.

NEW SIBERIAN—New and wonderfully productive. Extremely hardy and about two weeks earlier than the German Millet, growing four feet in height.

COMMON—A well-known variety growing from three to four feet high; has broad blades and strong stalks.

BROOM CORN MILLET—Is somewhat variable in character and is divided into several varieties, one of which is sometimes called Hog Millet, as the seed is often used to feed hogs. All of this class are better adapted to produce seed than for pasture.

WHITE WONDER MILLET—Grows four feet tall, bearing large heads covered profusely with bristles which repel attacks by birds.

HUNGARIAN—A dwarf annual Millet. It is finer than the Common or German Millets, but produces a closer stand. Superior for hay.

FIELD PEAS

A very profitable crop and grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. **Write for prices.**

TANGIER PEAS
(Lathyrus Tingitanus)

This field pea is used for silage and soiling purposes. Grows from 3 to 6½ feet high, and produces 15 to 25 tons of green feed per acre. Should be planted in the early spring, when seeded alone 80 to 100 lbs. per acre, planted with a nurse crop seed about half and half on basis of 100 lbs. total per acre. **Price: 20c per lb. postpaid; $1.75 per 10 lbs. postpaid. Write for quantity prices.**

RAPE

DWARF ESSEX—One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Highly recommended by Professor Shaw and other eminent authorities. Has yielded ten tons of green forage per acre with a food value double that of green clover. Excellent pasture for all stock, and fine green feed for chickens. Thrives on all soils and is ready for use in six to eight weeks from time of sowing. Also valuable for plowing under. Sow same as turnips from May until September, or sow with grain. Use four pounds per acre in drills, eight pounds broadcast. **Lb. 25c; postpaid. 10 lbs. $1.55. Write for prices in quantities.**

REMEMBER

ALL FIELD SEED PRICES ARE SUBJECT TO MARKET CHANGES. You will always get your money's worth or we will quote on request.

SEED RYE

Spring Rye is a very important and profitable crop useful for replacing Winter grain that has failed, or planted as a soiling or grain crop is always dependable. Should be sown at the same time as other Spring grains using 90 to 120 lbs. per acre.

Price 10 pounds, postpaid, 75c. For larger quantities, write for prices.

SPRING RYE—Bearded—We offer a fine stock of true Spring Rye that can be planted in this section any time after the ground can be worked.

BEARDLESS SPRING RYE—This splendid variety is extremely hardy, yields heavily and is preferred for stock feeding, as the small beards (about an inch long) mostly drop off in handling. **Plant Fall or Spring.**

ROSEN RYE—A fall or winter rye brought from Russia in 1909. Each head fills four complete rows of grain. The grains are much larger than of common rye and the yield double and some make it stronger and say three for one. You cannot make a mistake in trying it.

COMMON WINTER RYE—Choice recleaned seed. **$2.85 per hundred. F. O. B. Portland.**

THE NON-SACCHARINE SORGHUMS

Wonderfully productive and of great value as a forage, ensilage or grain crop in dry sections

THE varieties here offered represent the best selections and are highly recommended. They are best drilled in —using 3 to 8 lbs. per acre, depending on variety and condition. Plant in the late Spring after the ground is warm. Culivate often, throwing earth toward the plants.

SUDAN GRASS—The great drouth resisting forage crop—All stock relish it, and no harmful effects have followed where it has been fed. Under favorable conditions, it grows from 7 to 9 feet, having luxuriant foliage and small stems. While thriving under dry conditions, excessive moisture will not harm it but is easily damaged by frost. Where growing conditions are favorable the stubble makes excellent green pasturage. In the South three or four cuttings are not uncommon. **Price: postpaid, 10 lbs. $1.75. Write for quantity prices.**

BROOM CORN—Dwarf Evergreen—Grows from 4 to 5 feet high and makes straw of finest quality, being almost if not entirely, free from crooked brush. **Per lb., postpaid, 25c. 10 lbs. $1.50. Write for quantity prices.**

MILO MAIZE—This is one of the sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height 4 to 7 feet. Heads are very large, giving a heavy grain yield, is drought resistant, and succeeds on alkali soil. Plant late when ground is warm, three to six pounds per acre. **Per lb., postpaid, 20c. 10 lbs. $1.25. Write for quantity prices.**

FETERITA—This is drouth resistant and twenty to forty days earlier than Kaffir corn. Makes splendid fodder as well as giving a good grain yield. **Per lb., postpaid, 20c; 10 lbs. $1.25. Write for quantity prices.**

KAFFIR CORN—An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high. Greatly relished by cattle and horses. The seed crop is also heavy. It does best sown in drills three feet apart. **Per lb., postpaid, 20c. 10 lbs $1.25. Write for quantity prices.**

SPELT or Emmer

EMMER—(Triticum Dicoccum)—**Often Mistakingly Listed as Speltz**—Similar to barley in growth, but produces two grains in a spikelet. A profitable crop yielding 50 to 100 bushels of grain, or four to six tons good hay per acre. Thrives well on poor soil, and dry weather seems not to effect it. After threshing, the straw makes good feed. Sow in Spring at rate of 75 to 100 pounds per acre. We offer choice, recleaned seed. **10 lbs. 85c, postpaid. Write for quantity prices.**

SUNFLOWER

MAMMOTH RUSSIAN—The largest and most productive variety. Grown extensively for silage for cattle and is proving of immense value. The seed is a valuable poultry food, a great egg producer. It is usually drilled in 36-inch rows with the hills 4 inches apart in the row. In sections where the season is short it should be planted as soon as the soil is in good condition in the Spring. For silage it should be cut when 25 to 30 per cent of the plants are in bloom. In food value it is equal to corn silage and the yield 3 to 4 times as great. It has been demonstrated in many parts of the country that no other known forage plant will produce as great a tonnage of high grade food for livestock. **Lb. 25c; 10 lbs. $1.65. Write for quantity prices.**

Diamond Quality SEED OATS

"SHADELAND ECLIPSE"

THE production of fine seed oats has always been one of our leading specialties and we consider them to be the most profitable and satisfactory grain crop, being indispensable to stock and dairymen, and their use as a food is constantly increasing. Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit. They will mature in July from Spring sowing, giving quick returns and leaving the soil in good condition for Fall planting.

We offer select, recleaned, well-matured seed oats of standard varieties, suitable for this section and our own introductions, "ECLIPSE," "CLIMAX" and "TRIUMPH," the earliest and most vigorous, heaviest yielding oats ever grown anywhere.

DIAMOND HULLESS OATS

HULLESS OATS—Grow like ordinary oats with a branching head but thresh out clean, the kernel larger than common oats and ready for milling just as they come from the cleaner, retaining all their richness and flavor. You can make your own oatmeal and it will cook quicker and you will find it of superior excellence.

DIAMOND HULLESS OATS stool freely, stand up well, will thrive wherever oats can be grown. Drouth resistant, ripen in about 100 days from seeding, weigh about 54 lbs. measured bushel. Sow 40 to 50 lbs. per acre. **10 lbs. postpaid, $1.25. Write for prices in quantities.**

ECLIPSE—White Side Oat

A reselection from our famous "Shadeland Challenge," and is living up to its name by "eclipsing" all competitors, including the parent stock, being equally as vigorous and early and the massive heads are uniformly larger and filled with plump, heavy thin-hulled oats of finest milling quality. The yield on light dry soil where our seed crops are grown runs from 75 to 85 bushels per acre and moist bottom land 125 bushels per acre is not uncommon.

"ECLIPSE" can be planted Fall or Spring, west of the mountains (Fall plantings should be made on well-drained soil), but in severe climates early Spring planting is best. Matured in 90 to 100 days, and can always be harvested before the Fall rains. Their beautiful bright color and plumpness command the top price in the market. Try this grand new side oat. **10 lbs. postpaid, $1.00. Write for prices in quantities.**

TRIUMPH OATS

A Side Oat with great merit. For the years that we have been handling Seed Oats we have always been most careful to handle only the highest grades and it is a great pleasure to be able to offer our patrons this wonderful variety SHADELAND TRIUMPH. **10 lbs. postpaid, 85c. Write for quantity prices.**

"SENATOR"—(A New Garton Side Oat)—Highly recommended for its extreme earliness and great fertility—is **especially adapted to heavy land.** On good land this oat will do well, where oats are liable to lodge SENATOR will stand up—has stiff straw—large grains and fine color. **10 lbs. postpaid, 75c.**

CLIMAX—Tree Oat

For early Spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, "CLIMAX" will give a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are often borne 3 in a spikelet, which partly accounts for its wonderful yield. In our trials "CLIMAX" has not been injured by severe early freezing and later drought, but has stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up. West of the Cascade Mountains you can plant "CLIMAX" Fall or Spring, any time the ground is fit, but where the climate is severe, Spring plantings are best.

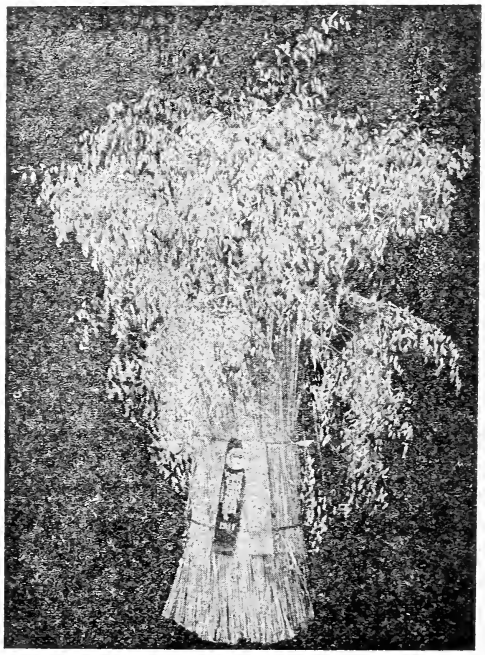
10 lbs. postpaid 75c. Write for quantity prices.

STANDARD SEED OATS

WHITE SEED OATS—We always try to have a selected recleaned stock of No. 1 White Seed Oats which we can supply at market prices. Write for samples and prices on the quantity you require, or send in your order. You will always get full value for money.

SWEDISH RED—A comparatively new tree Oat from Sweden, having a soft hull and fine straw which is ideal for hay. This is the oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in Fall or Winter.

GRAY WINTER.—Planted extensively throughout the Northwest as a Fall or Winter oat. Well and favorably known, being a good yielder, and the Oats are large and plump. **Write for prices.**



"CLIMAX"—Always a winner

Diamond Quality SEED WHEAT

LITTLE CLUB

PRIOR to the adoption of the U. S. Grain Standards the Pacific Northwest did not use the grades established by the big eastern wheat centers, but since the U. S. Standards have become effective it is impossible to market mixed varieties of wheat or other grains at the best prices, and growers will find it necessary and profitable to plant only clean, pure seeds of standard commercial varieties.

We have provided splendid stocks of the best sorts for this section and when ready to buy any variety of Seed Wheat, write us for quotations on quantity wanted or send in your order and we will give full value at lowest prices. The following are standard market varieties that are known as the most profitable and best yielding.

Price, 10 lbs. postpaid, 85c. Write for quantity prices. Prices subject to change without notice.

HARD FEDERATION—Spring—This wheat has been tried out by the experimental station at Moro, Oregon. It is a hard flint wheat. The government test proves it to be high in gluten, and high in yield of flour, making it one of the best milling wheats. Beardless, and a heavy producer, and should be an excellent variety for the Northwest. We highly recommend it.

EARLY BAART—Bearded—Spring—A Spring wheat fully as early as Marquis, a better yielder and has a large white grain of finest milling quality. In the big wheat sections of Eastern Washington, Early Baart has matured three weeks ahead of Blue Stem, giving a bigger crop and its earliness insures protection against loss from extreme heat and drouth occurring later.

BLUE STEM—Spring—The best known and one of the most profitable Spring varieties for the Northwest. Heads are large and well-filled. Stools freely. Grain very hard. Although a Spring variety, can be planted as a Fall Wheat in sections where Winters are mild. The Blue Stem of the Pacific Coast has a white grain and smooth chaff, quite unlike the Velvet Chaff and Red grains of the states East of the Rockies. Better results are had with this Wheat East of the Cascade Mountains, as it has a tendency to lodge in the moist sections on the Coast.

MARQUIS—Spring—Marquis Wheat was produced by a cross of Red Fife and Hard Calcutta. It differs from the parent stock, Red Fife, inasmuch as it has a heavier head, shorter straw, and more flinty, very heavy, weighing about 65 pounds to the measured bushel. Heads are beardless, chaff smooth.

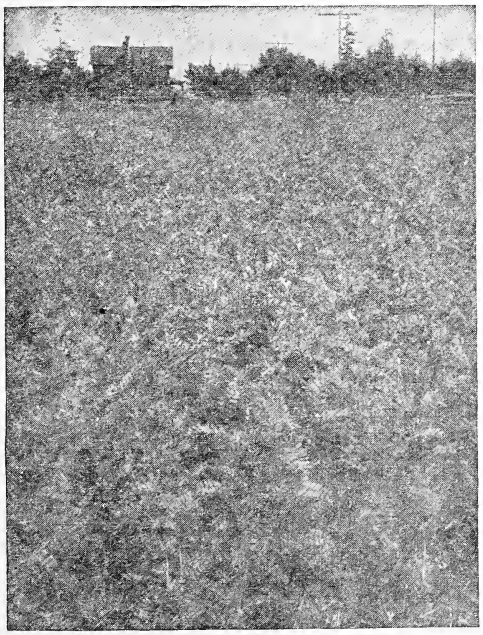
LITTLE CLUB—Spring—This well-known variety has stiff straw, typical club head and does not shatter easily. A good grower, yields well. Our stock is exceptionally good, being selected from a heavy yielding strain.

FOISE—Winter—Medium hard kernels. Beardless, chaff red. Heads slightly club shaped at tip. Specially adapted to the richer soils and prairie lands of the valleys, and foothills West of the Cascades and under favorable conditions yields heavily. Mills well.

EATON (Winter)—A white beardless winter wheat. This wheat has been tried out by the Oregon Agriculture College, and recommended by them as being one of the best varieties for Western Oregon, and Washington. It has proven a high yielder. You can make no mistake in giving this a trial. **Write for prices.**

VETCHES OR TARES

Prices Subject to Change Without Notice.



HUNGARIAN VETCH—After having been grown at the Oregon Experiment Station for the past fifteen years and by cooperating farmers for the past four years, is undoubtedly destined to become a very important annual leguminous farm crop for this state, especially the western part. Its aphis resistance is probably the largest single factor toward making it a generally grown crop in Western Oregon. During years when aphids practically destroyed many other farm crops this vetch was injured comparatively little and produced practically normal crops of forage and seeds. Hungarian Vetch is seldom attacked by diseases or insect pests. At no time since the crop has been grown here has any loss occured due to disease or insects. Experience has shown that Hungarian is a heavier yielder in both hay and seed than any other vetches grown here, under similar conditions. **10 lbs. postpaid, $1.25. $6.75 per 100 lbs., F. O. B. Portland. Write for quantity prices.**

COMMON VETCH—(Vicia Sativa)—One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. It furnishes an abundance of excellent feed, either green or cut and cured for hay. Seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Vetches weigh seventy pounds per bushel. Sow in Fall or early Spring. **10 lbs., postpaid, $1.00.**

WHITE SPRING OR PEARL VETCH—Coming into great favor and being extensively used for Spring planting as splendid results can be had from sowings made as late as April. Yield is fully equal to that from common vetch (vicia sativa) and of fully as great feeding value. The advantage of later Spring planting makes it specially desirable and more sure to give returns than common Vetch under many planting conditions, and it has given better results on the light sandy cut-over lands of Washington and Idaho. **10 lbs., postpaid, $2.00.**

SAND, or Winter Vetches—(Vicia Viliosa)—This variety thrives on poor, arid, sandy soils. Sown either in Fall or early Spring, generally mixed with rye, which serves to support the plants. Grows to a height of 3 or 4 feet, can be cut twice; first, as soon as the bloom appears, and afterwards for seed. The plant is perfectly hardy and makes a very nutritious food. **10 lbs. postpaid, $1.75.**

WOOLLY-PODDED VETCH—(Vicia Dasycarpa)—Closely related to hairy vetch, equally hardy, two to three weeks earlier. It differs from Hairy Vetch, having nearly smooth leaves, purple flowers and hairy pods. It has succeeded splendidly wherever tested, and on account of its earliness has advantages over hairy vetch. Excellent crops are produced in Western Oregon. Recommended in this section for fall planting. It is worthy of a trial. **10 lbs. postpaid, $2.00.**

PURPLE VETCH—(Vicia Atropurpurea)—It is a new variety and takes its name largely from the color of the blossom, which is a deep purple. It is being used by a great many orchardists for plowing under. Can be grown as cheaply as Common Vetch and should be planted in the Fall on well drained fertile soil, sixty pounds to the acre. It may be used as a hay or silage crop. The plant has been found to be free from attacks of the aphis. **10 lbs. postpaid, $1.75.**

CLOVER AND ALFALFA SEEDS

Write for prices on 100 lbs. or ton lots. They are always subject to market changes. Single pound prices postpaid.

ALFALFA OR LUCERNE CLOVER

ALFALFA should be cut for hay when the shoots of the next crop appear at the base of the plants. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow and during the hottest and driest weather when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils. Its roots, in seeking moisture, penetrate to incredible depths. The seed should be sown in the Spring, after danger from freezing the young plants is over, or in the Fall, early enough to give it a good stand before frost. The domestic acclimated seed we offer can be depended upon to give splendid satisfaction.

GRIMM ALFALFA—(Certified)—The hardiest Alfalfa known. In trials, at practically every Experiment Station in the West and Northwest, it has headed the list for vigor and hardiness. Being scarce and in big demand the price is high but the value of Grimm has been demonstrated beyond question and we recommend its trial. **Price per lb. 60c, postpaid. 10 lbs. $5.50 postpaid. Write for quantity prices.**

DRY LAND ALFALFA—Will produce large, profitable crops of hay and excellent pasture on the high dry lands, and is especially recommended for the hills and plateaus where irrigation is impossible. **Per lb. postpaid, 35c. Write for quantity prices.**

CRIMSON OR SCARLET CLOVER—(Trifolium incarnatum)—Highly recommended for pasture and fertilizing purposes. A thrifty annual, growing 20 to 30 inches high. Germinates quickly, grows rapidly, stools abundantly. Cut for hay when in full bloom. Planted in the Fall can be plowed under after blooming in the Spring, followed with barley or potatoes. **Per lb. postpaid, 30c. Write for quantity prices.**

WHITE DUTCH CLOVER—(Trifolium repens)—Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. **Per lb. postpaid, fancy 75c; Diamond fancy 80c.**

YELLOW SWEET—(Melilotus Officinalis)—In great demand on account of its earliness, being about two weeks earlier than the white. Does not grow as tall as white but makes just as good pasturage as white. Produces high quality hay. **Per lb. postpaid 35c; 10 lbs. $2.55 postpaid. Write for quantity prices.**

HUBAM CLOVER—(Annual Sweet Clover)—An annual white blossom sweet clover, very similar to **Melilotus Alba.** A rapid growing clover, ready for cutting four months after seeding. Makes an ideal crop for turning under or soiling in orchards. Bee men are finding ideal for bee pasture, it being available the first season. Good stock pasture. Seed 20 lbs. per acre. **Per lb. postpaid, 50c; 10 lbs. $4.15. Write for prices on larger lots.**

ALFALFA—Our domestic Alfalfa is acclimated and will thrive splendidly where growing conditions are normal, including irrigated land. Where dry farming is practical special Dry Land Alfalfa is recommended. **Price: 1 lb. postpaid, 35c. Write for quantity prices.**

RED CLOVER—(Trifolium Pratense) — The standard Clover for all purposes. Hardy, succeeds well on any good soil. Makes superior hay—especially mixed with Timothy—either for dairy cows or for general use. **Per lb. postpaid, 50c. Write for quantity prices.**

MAMMOTH RED CLOVER—Grows very large and is used almost exclusively for plowing under for manure. **Per lb. postpaid, 45c. Write for quantity prices.**

ALSIKE OR SWEDISH CLOVER—(Trifolium Hybridum)—A perfectly hardy perennial. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture. The hay is preferred to that of Red Clover, being finer, brighter and not so dusty. **Per lb. postpaid, 50c; Write for quantity prices.**

SWEET OR BOKHARA CLOVER—(Melilotus Alba)—(White Blossom)—Excellent for pasture hay, and a soil improver. More drouth resistant than alfalfa and will generally produce a large crop of seed and hay the second year. Thrives best on alkali soil, and is well recommended for bees. **Per lb. postpaid, 35c. Write for quantity prices.**

MELILOTUS INDICA—(Annual Yellow Blossom)—Now recognized as the legume best adapted for green manuring in orchards because it may be planted late in the fall after all crops have been harvested, and will grow all winter with only the season's rainfall. **Per lb. 25c; 10 lbs. $1.75, postpaid. Write for quantity prices.**

Prices Subject to Change Without Notice.

BETTER CROPS IN FIELD AND GARDEN

IF YOU INOCULATE WITH

Registered in the United States Dec. 6th, 1898. 26 YEARS AGO.

The Improved Soil Inoculator, Nobbe-Hiltner Process

NITRAGIN

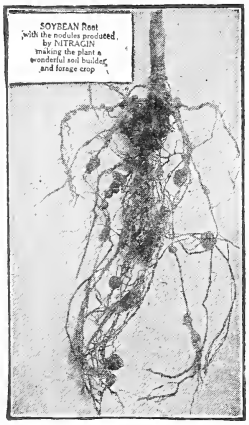
TRADE MARK REG'D DEC 6 1898 NO 32712

Restores and Maintains Soil Fertility

Awarded Gold Medal Worlds Fair—St. Louis 1904. 20 YEARS AGO.

THE ORIGINAL SOIL INOCULATOR

Alfalfa, clovers, soybeans, vetches, peas, beans, cowpeas, peanuts and other legumes should always be inoculated with Nitragin. The lack of necessary bacteria in the soil is often the cause of a poor legume crop—a weak start—or a total failure.



Inoculated Soybeans
Be sure and name crop to be inoculated.

BENEFITS OF INOCULATION

The principal reasons for inoculation can be stated in five short paragraphs, viz.:

First—Inoculated legumes take nitrogen from the air to supply the plant, resulting in faster growth, earlier maturity and larger crops.

Second—Inoculated legumes take up more nitrogen than the plant itself requires, the surplus remaining to the benefit of future crops.

Third—Inoculated legumes develop larger root systems than when not inoculated and therefore reach the immense stores of potash and phosphorus in the sub-soil, bringing them up to supply the plant. When the roots and stubble decay these elements are also returned to the soil in a form available for future crops.

Fourth—Inoculated legumes, by taking their nitrogen from the air, save the soil. When not inoculated they drain the soil of its nitrogen just the same as wheat or timothy or other leguminous plants.

Inoculated legumes contain more protein matter than when not inoculated, greatly increasing their feeding value.

Summary—Inoculation hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills.

Prices For Field Nitragin

¼-bu size inoculates 15 lbs seed	$ .40
½-bu size inoculates 30 lbs seed	.60
1-bu size inoculates 60 lbs seed	1.00
5-bu size inoculates 5 bu seed	4.75

EVERY GARDEN NEEDS "NITRAGIN"
Garden size is for Peas, Sweet Peas and Beans, only including Lima (3 in one). Price 20c.

Sold on the BUSHEL basis—not acre sizes. The one bushel size will inoculate one bushel of any legume seed, price $1.00, other sizes in proportion. If you sow 15 pounds seed per acre, you pay $.25 per acre inoculating with NITRAGIN—not $1.00 or more.

Sold in tins—not glass—packed in a rich soil-like medium.

"DIAMOND QUALITY" GRASS SEEDS FOR LAWNS, GOLF LINKS PASTURES AND HAY

The choicest new crop seeds, RECLEANED IN SPECIAL CLEANING MACHINES IN OUR OWN WAREHOUSE AND TESTED FOR PURITY AND GERMINATION IN OUR OWN LABORATORY, the only exclusive commercial seed laboratory in Oregon. No one, unless they have visited our laboratory, can realize the painstaking study and tests, given grass seeds especially, by our Seed Analyst, co-operating closely with our recleaning department in order to give the very finest, purest seed.

Our SPECIAL MIXTURES have been carefully worked out by the tests and observations of our practical experts familiar with the requirements and conditions to be met, and will give the best results possible to obtain for the uses to which they are recommended.

To have a good lawn the soil must be fine and rich, and well leveled. Then the **best seed obtainable** should be used. Plant any time from September until late Spring, depending upon weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture costs more at first than the poorer substitute, but will be found much cheaper and more satisfactory in the end.

"Diamond Fancy Lawn Grass Mixture"

Prepared from the choicest recleaned grass seeds, carefully selected for their fineness, their deep rooting, close growing habits and seasonable qualities; producing an ideal, dense velvety turf of lasting quality that remains green throughout the year. Sow one pound to 200 square feet. 25 lbs. to a 50 ft. lot. **1 lb. postpaid 70c. Write for special quality prices.**

DIAMOND SHADY LAWN MIXTURE—This mixture fills a long felt want as it gives a fine, velvety turf in shady places where most grasses do not thrive. **1 lb. postpaid $1.00. Write for quantity prices.**

ROUGH STALK MEADOW GRASS—For shady lawns, or for sowing in wood pastures. An excellent grass. **1 lb. postpaid 85c. Write for quantity prices.**

FINE MIXED LAWN GRASS—For use where a temporary lawn must be quickly prepared, and if kept closely cut will be lasting and handsome appearance. A good, clean mixture. **1 lb. postpaid, 60c; 10 lbs. $4.90.**

DIAMOND TENNIS COURT MIXTURE—Made up of fine, close-growing, heavily rooted grasses that make a dense lasting turf. **1 lb. postpaid, 70c. Write for quantity prices.**

IMPORTED CREEPING BENT GRASS—Being of fine texture this Grass is most valuable for lawns and ideal for putting-greens. It is of rapid growth and spreading habit, and makes a strong, enduring turf. **1 lb. postpaid. $1.50. Write for quantity prices.**

COCOOS CREEPING BENT—This is the true Creeping Bent grass, Oregon grown. It has been harvested under the inspection of the Oregon Agriculture Experiment Station. Especially recommended for Lawns and Golf Courses, as it makes an exceptionally fine turf that smothers out dandelions and other weeds. **1 lb. postpaid. $2.50. Write for quantity prices.**

CHEWING FESCUE—(Festuca Duriuscula)—This is a small, low growing grass, fine leaved, and forms a close turf which prevents the ingress of weeds. It is an absolutely permanent grass on all kinds of soils, even the lightest and dryest, and on dry, shingly soil it reigns alone. It is claimed that for lawns, golf links and such like it cannot be excelled if grown properly. Large quantities of this seed are imported annually, principally for golf links and lawns. **Per lb. 50c; 10 lbs. $4.75, postpaid. Write for prices on larger lots.**

MIXTURES FOR GOLF LINKS, PUTTING GREENS. FAIRWAYS—Write for prices stating amount wanted. We make these a specialty.

Grass Seeds for Lawns and Pastures — Diamond Quality

KENTUCKY BLUE GRASS—Used very extensively for lawns and is found in all lawn grass mixtures. A hardy grass and makes a most excellent lawn. Sow one pound to 200 square feet if used alone. **1 lb. 65c; 10 lbs. $5.15 postpaid.**

RED OR CREEPING FESCUE—(Festuca rubra)—Forms a close turf and is valuable for lawn and golf mixtures; thrives in sandy soils and along the Coast. (Fourteen pounds to the bushel.) **Prices, per lb., 50c; 10 lbs., $4.00, postpaid.**

ENGLISH RYE GRASS—Short Seeded—For Lawns this is used and recommended by many gardeners. If sown thickly, it makes a fine lawn, and for large grounds and parks it is very successful. **Postpaid, 10 lbs. $2.50.**

RED TOP—(Agrostis Palustris)—A good perennial grass. Generally sown for permanent lawns and pastures. Does best on moist or even marshy land. If not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsike Clover. Sow twenty-eight pounds per acre unhulled seed; fourteen pounds hulled. **Choice Unhulled, 10 lbs. $2.75, postpaid.**

Diamond Fancy Hulled—A very superior grade of Red top that is free from chaff and light seed. **10 lbs. $4.65. postpaid.**

SWEET VERNAL—(Authoxanthum odoratum)—Valuable to put in pasture mixtures and lawn grass on account of its delightful fragrance when in bloom. Only recommended for use in mixtures. **Annual, per lb. 55c, postpaid.**

WRITE FOR QUANTITY PRICES. ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

LADINO WHITE CLOVER Tall growing white clover which furnishes an excellent [illegible] hay [illegible] be cut for hay [illegible] $2.00

LADINO WHITE CLOVER good pasturage and makes sufficient growth to [illegible]
Will carry twice as much stock per acre as blue grass. 1 lb. postpaid [illegible]

"DIAMOND QUALITY" GRASS SEEDS *Continued* FOR PASTURES AND HAY

Tall Meadow Oat Grass

POINTS OF MERIT

Seldom fail to get a stand of grass.

Earliest grass to start in the spring and last to die in the fall.

Withstands drouth, heat and cold much better than other grasses.

In favorable season it will produce two crops in a year, (however, second crop does not develop seed).

First crop grows from five to six feet tall, consequently it makes an abundance of forage or pasture.

With proper care will make large annual yields for a period of from three to six years and longer.

It is a long lived, deep rooted perennial.

Can be successfully grown with red or alsike clovers and will mature for hay with these legumes.

Will grow equally well on bottom lands or upland clay soils, and because of its deep root system it does not rob the surface soil of its fertility as does timothy or orchard grass.

10 lbs. $2.75, postpaid. Write for quantity prices.

TIMOTHY—(Phleum pratense)—This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the Spring or Fall. Sow 15 to 20 pounds per acre. **Fancy, lb. 25c; 10 lbs. $1.45, postpaid.**

ITALIAN RYE GRASS—(Lolium italicum)—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40, pounds per acre. **10 lbs. $2.25 postpaid.**

ENGLISH RYE GRASS—(Lolium perenne)—A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. 40 pounds per acre. **Prepaid, 10 lbs., $2.25. Write for quantity price.**

MESQUITE—(Holcus lanatus)—It is usually sown on virgin soil without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed, hulled, 15 pounds per acre. **Fancy Hulled Seed, 10 lbs. postpaid, $2.25.**

ORCHARD GRASS—(Dactylis Glomerata)—One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow twenty-eight pounds per acre. **Fancy Eastern, per lb. 40c; 10 lbs $3.00 postpaid.**

KENTUCKY BLUE GRASS—(Poa Pratensis)—One of the best grasses for permanent pastures furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow twenty-eight pounds per acre. **Per lb. 65c; 10 lbs. $5.15, postpaid.**

CANADIAN BLUE GRASS—(Poa compressa)—Recommended in all pastures mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow twenty-eight pounds per acre. **10 lbs. postpaid, $4.95.**

MEADOW FESCUE — (Festuca pratensis) — Perennial; grows 3 to 4 feet high. Roots deep, thus resisting drouth. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds. Sown alone, use 40 pounds per acre. **Per lb. 35c; 10 lbs. $2.55, postpaid. Write for quantity price.**

TALL FESCUE—(Festuca elatior)—Succeeds best in moist alluvial and strong clayey soils; is very productive and lasting; valuable for permanent pasture, is relished by stock and on rich land makes fine hay—height 3 to 4 feet; weight 22 pounds per bushel. **Per lb. 60c; postpaid.**

BROMUS INERMIS—Russian Forage Grass—Awnless Brome Grass—This Bromus, on account of its strong perennial character, and its unusual drouth-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle and yields from two to six tons to the acre. Sow 25 to 30 pounds per acre. Spring or Fall. **10 lbs. postpaid, $2.55.**

BERMUDA GRASS—(Cynodon dactylon)—Suitable only for climates where the Winters are not below the freezing point. It stands the hottest and driest season. Sow 6 lbs. per acre. **Per lb. 85c, postpaid; 10 lbs. $7.25, postpaid.**

CRESTED DOG'S TAIL—(Cynosurus cristatus)—A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land; makes excellent sheep pasturage. Use 20 lbs. per acre if sown alone. **Per lb. 70c; postpaid; 10 lbs. $6.00.**

SPECIAL PASTURE MIXTURES

No. 1. FOR GOOD LOAMY SOIL—A mixture of Grasses and Clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture, or for mowing for mixed hay. For pasture, sow 20 pounds per acre. **Price, postpaid, 10 lbs. $3.45.**

No. 2. FOR IRRIGATED LANDS—Use grass pastures and avoid bloat from green Alfalfa—Sow 28 pounds per acre, preferably in early Spring. As soon as well established give water as needed. With proper attention a permanent pasture can be maintained. **10 lbs., postpaid, $3.55.**

No. 3. FOR LIGHT SANDY SOIL—An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years. Sow 20 pounds per acre. **Prices, 10 lbs. postpaid, $4.00.**

No. 4. FOR DRY LAND—Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 pounds per acre. **Prices, 10 lbs., postpaid, $4.00.**

No. 8. FOR ARID OR ALKALI LAND—Particularly for arid alkali land. This mixture is composed of varieties that have proven to be the best for the soils mentioned. Sow 20 pounds per acre. **Prices, 10 lbs., postpaid, $3.25.**

No. 10. HAY AND PASTURE MIXTURE FOR DRY HILL LAND—Especially suited to the dry sections, such as parts of Southern Oregon, Eastern Oregon, Eastern Washington and Idaho. This mixture is made up of varieties that can endure a great change of temperature from heat to cold, and at the same time will make a splendid mixed hay. **Prices, 10 lbs., postpaid, $3.35.**

No. 11. FOR GRAZING PURPOSES—This is a mixture of grasses only, being made up for the benefit of those who wish a mixture without Clover, and will make a fine permanent pasture, but is not intended for hay. **Prices, 10 lbs. postpaid $3.55.**

No. 12. FOR BURNED-OVER BOTTOM LAND, OR LAND INCLINED TO BE RATHER DAMP—This is a mixture that will do well either for hay or for permanent pasture on land that is too wet for many of the grasses and clovers. **Price, 10 lbs., postpaid, $3.45.**

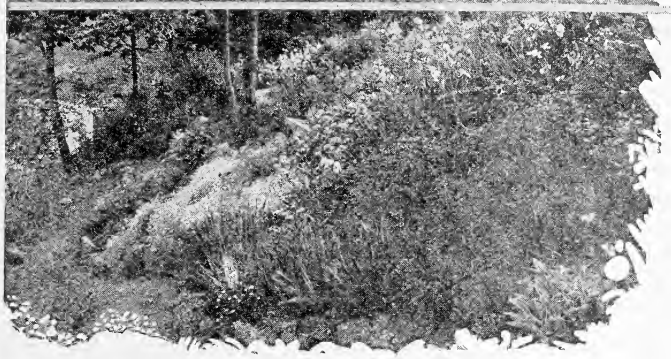
No. 16. LOWLAND PASTURE MIXTURE—This mixture is prepared to give continuous pasture on low, moist ground. **Per lb. 30c, postpaid; 10 lbs. $2.50 postpaid; 100 lbs. $17.50 f. o. b. Portland.**

No. 17. UPLAND PASTURE MIXTURE—In selecting different varieties for this mixture we have taken those grasses which are well know for their drouth resisting, deep rooting qualities. **Per lb. 30c, postpaid; 10 lbs. $2.50, postpaid; 100 lbs. $17.50 f. o. b. Portland.**

[illegible] and logged-off land, which at the price are splendid values and very economical for such purposes. **Price, 100 lbs. $15.00, f. o. b. Portland.**

WRITE FOR QUANTITY PRICES ON ALL ABOVE. ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Diamond Quality FLOWER SEEDS



FLOWERING plants are enjoyed by everyone and cut flowers for home use or flowering plants for garden display can easily be grown; their care is a pleasant and healthful diversion and for the small expense of time and money nothing will return so much pleasure and profit. If you have any planting problems, if you wish to produce special effects or work out color schemes, write us; we will be glad to assist you in every way possible, and our experience is at your service.

Important Note

In our catalog we have listed our flower seeds alphabetically, and to assist in your selection all those marked by (B) ARE BIENNIALS, and those marked with (P) ARE HARDY PERENNIALS. THOSE NOT MARKED ARE ANNUALS.

Information That Will Aid in Selection of Flowers

Annuals bloom and ripen the first year and then they perish. Many annuals in warm climates, or when taken in, or protected during Winter, become perennial, with short lives.

Hardy Annuals, Biennials and Perennials can be sown in open ground early in the Spring if desired, and Hardy Biennials and Perennials require no protection in Winter.

Perennials flower several years in succession.

Biennials do not generally flower the first year, and are in their perfection the second year.

Half-Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be sown in the house if desired, early, and afterwards transplanted. The two latter need to be protected in Winer, or carried over until Spring in cold frames or greenhouses.

Flower Seeds that are easy to grow under the proper conditions of heat and moisture will often fail when these conditions cannot be controlled. The following seeds require special attention and equipment for best results: Asparagus Plumosus, Asparagus Sprengerli, Begonia, Calceolaria, Canna, Cineraria, Cyclamen, Heliotrope, Gentiana, Oenothera, Smilax and Primrose, except Evening Primrose.

PLANTS IN SEASON—In season we have a great many of the perennials that will bloom the first season and annuals for transplanting. See plant department.

CLASSIFICATION OF FLOWERS

This will enable you to tell at a glance what flowers are suitable for any position.

Annual Bedding Plants or Tall Border Plants 1 to 2 feet

Ageratum, Tall	blue, white or mixed
Asters	various colors
Balsam	various colors
Brachycome	blue, white, rose
Browallia	blue and white
Calendula	mixed
Candytuft	various colors
Celosia	crimson
Centaurea	yellow, rose
Chrysanthemum	yellow, white, gold
Clarkia	pink, scarlet
Eschscholtzia	crimson, white, yellow
Four O'clock	various colors
Gaillardia	orange, scarlet
Godetia	variegated rose and white
Gypsophlia (for bouquets)	white
Linum (scarlet flax)	scarlet
Marigold	yellow, red, brown, and variegated
Mignonette	white, yellow, red
Nasturtium, dwarf	various colors
Nigelia (Love in a mist)	mixed colors
Petunia	various colors
Poppy	various colors
Phlox	various colors
Scabiosa	white, lilac, carmine and maroon
Schizanthus	various colors
Salvia	scarlet
Stock (10 weeks)	all colors
Zinnia	various colors

Everlasting Flowers

Acroclinium	all colors
Helichrysum	various shades
Statice	white, blue and yellow

Tall Growing Plants for Grouping—Annual, From 2½ feet up

Amaranthus	scarlet
Calliopsis	yellow, brown, maroon
Castor Bean	
Cosmos	white, red, pink
Euphorbia	
Kochia	
Larkspur	various colors
Nicotiana	white
Rudbeckia	yellow
Salpiglossis	various colors
Scabiosa Grandiflora	all colors
Sunflower	yellow

Low Edging Plants

Ageratum Dwarf	blue, white or mixed
Alyssum	white
Calliopsis, Tiger Star	reddish brown
Candytuft	various colors
Celosia, Dwarf	various colors
Centaurea, Dusty Miller	
Dianthus	various colors
Lobelia Compacta	blue
Mignonette	white, yellow, red
Pansy	all colors
Portulaca	yellow, pink, white, scarlet
Verbena	various colors

Low Edging Plants—Perennial, 6 to 12 Inches high

Alyssum Saxatile	yellow
Anemone	various colors
Pinks	various colors
Daisy, English	various colors
Forget-me-not	blue
Poppy, Iceland	white, orange, yellow
Primula	various colors
Pyrethrum	various colors
Viola	yellow, white and blue

Bedding Plants—Perennial 1 to 2 feet high

Agrostemma	pink
Aster	various colors
Begonia	various colors
Calceolaria	various shades and colors
Candytuft	all colors
Carnation	various colors
Cineraria	various colors
Coleus	
Columbine	yellow, violet, rose
Daisy (Shasta)	white
Gaillardia	yellow, orange, scarlet
Geum	scarlet
Linum	various colors
Lychnis	scarlet
Pentstemon	various colors
Salvia	scarlet
Statice	white, blue, yellow
Stocks (perpetual)	all colors
Sweet William	various colors
Tritoma	orange, red
Vinca	white, rose
Wallflower	various colors

Climbing Vines—Annual

Balloon Vine	white
Scarlet Runner Bean	scarlet
Cardinal Climber	red
Cobea Scandens	
Cypress Vine	
Gourds	
Moonflower	white
Morning Glory	
Nasturtium, Tall	various colors
Sweet Peas	all colors

Tall Growing Shrub Plants—Perennial For Grouping from 2½ feet up

Abutilon	
Anchusa	
Aster	various colors
Canna	various colors
Canterbury Bells	various colors
Chrysanthemum	various colors
Dahlia	all colors
Delphinium	various colors
Digitalis	
Fuchsia	
Geranium	scarlet, white, pink
Gladiolus	various colors
Hollyhock	various colors
Lantana	red, white, yellow
Lobelia Cardinals	scarlet
Lupin	shades of blue
Poppy, Oriental	various colors
Phlox, Perennial	various colors
Snapdragon, Tall	various colors

Climbing Vines—Perennial

Ampelopsis, Boston Ivy, Virginia Creeper	
Clematis	white, lavender, red
Kudzu Vine	violet

For Rockeries, Hanging Baskets or Window Boxes

Asparagus Fern	
Forget-me-not	blue
Ice Plant	
Lobelia Trailing	blue
Mimulus	yellow
Nasturtium	various colors
Petunia	various colors
Portulaca	
Thunbergia	buff, orange and white
Verbena	various colors

ASTERS

Asters grow to perfection in our mild, cool climate and splendid strains of the best-known sorts have been developed by careful selection. As Fall bloomers for garden or cut flowers, asters are most satisfactory, and the varieties we offer can be depended on for best results, rivaling the chrysanthemum in size and beauty. Asters require a rich moist soil.

CREGO GIANTS

EARLY BEAUTY ASTERS

This type has all the characteristics of the late beauty type and is especially valuable in this climate where the season is sometimes too late to flower the late type before rain or frost sets in. It can also be used to advantage for early forcing. Although it is not an extra early type, it does flower with the Crego and American Branching types.

Crimson Beauty. **Peach Blossom Beauty.** **Purple Beauty.**
Lavender Beauty. **September Beauty.** **Rose Beauty.**
White Beauty. **Pkt. each 15c; ⅛ oz. 65c.**

LATE BEAUTY ASTERS

A recently developed late flowering strain, which begins to flower in early September, lasting until destroyed by frost. Large flowers borne on long, stout stems from 18 to 24 inches. Plants grow nearly three feet in height.

Crimson Beauty—A bright crimson rose.
Lavender Beauty—A soft lavender.
Peach Blossom Beauty—A rich pink.
Rose Beauty.
Purple Beauty—A deep, rich purple.
September Beauty—A delicate shell-pink.
White Beauty—A good white.
Packet, Each 15c; ⅛ oz. 65c.

"CREGO GIANT"

The "Giant Crego" is distinct in every way, and its magnificent flowers, often 6 inches in diameter, have rare beauty of form and brilliant coloring, are very vigorous and free flowering. **White, Shell-Pink, Rose, Crimson, Purple, Lavender, Lavender-Pink and Mixed. Pkt. 10c; ¼ oz. 65c.**

NEW CALIFORNIA GIANTS

Combining the vigorous growth of "Beauty" and the Crego type of flower. A true, non-lateral type with flowers much larger. Their immense size, beauty and long sturdy stems make them very attractive in floral work. **Peach Blossom. Light Blue, Deep Rose and Dark Purple. Pkt. 15c, 1/16 oz. 75c.**

"MIKADO OR ROCHESTER" — A favorite with florists. Very long, narrow petals, toward the center they cross and recross in splendid confusion, strong branching habit. **White, Rose, Pink, Lavender and Mixed. Pkt. 10c; ¼ oz. 65c.**

LATE BRANCHING—Flowers large, beautiful, double and borne on long stems. **White, Rose, Shell-Pink, Lavender, Purple, Mixed. Pkt. 10c; ¼ oz. 50c.**

PERENNIAL ASTERS — Hardy, handsome flowers of easy culture, appearing at a time when flowers are scarce. If seed is sown indoors very early and seedlings set in open as soon as large enough to handle, will bloom the first season. **Large Flowering Mixed. Pkt. 10c.**

QUEEN OF THE MARKET—Best early Aster, of graceful spreading habit. **Light Pink, White, Dark Blue, Light Blue, Mxd. Pkt. 10c; ¼ oz. 50c.**

ASTER-MUM—Of immense size resembling chrysanthemums in form, hence the name "Aster-mum." Plants about two feet high with good stems. Earlier than "Crego." **White, Rose-pink, Lavender, Purple and mixed. Pkt. 10c; ¼ oz. 65c.**

GIANT COMET—Flowers large and beautiful; petals long and twisted. **Rose, Crimson, Pink, Dark Blue, Light Blue, White, Mixed. Pkt. 10c; ¼ oz. 65c.**

ACROCLINIUM—Everlasting—Grows about 15 inches high, white or rosy pink flowers, when cut in bud state, can be dried and used for winter bouquets. Sow early in sheltered location and transplant to permanent bed. **Mixed. Pkt. 10c; oz. 75c.**

AGERATUM—(Mexicanium) — For borders and bedding; covered with feathery blossoms all Summer; sow in early Spring in boxes to transplant or sow out of doors and thin to 4 to 6 inches. Shading dark blue to white. 1 to 1½ ft. tall. **Dark Blue, White or Mixed. Pkt. 10c; ¼ oz. 25c.**

AGROSTEMMA (P) — (Atro-Sanquinea)—Foliage silvery white, blossoms crimson, resembling single pinks. Striking beautiful for beds, ribbons and borders. Should be sown where plants are to remain and thinned to prevent crowding. Height 2 feet. **Perennial. Pkt. 10c; oz. 65c.**

ALYSSUM (P)—(Saxatile) — Showy, yellow flowers, blooms first season if sown early indoors. Fine for borders. Height 6 to 12 inches. **Pkt. 10c; ¼ oz. 35c.**

ALYSSUM—A dainty white flower, for borders, edging and rockwork. In borders, sow thickly so as to form masses. Height 4 to 10 inches. Sow in Spring or late August. **Maritimum**—Sweet. **Pkt. 10c; oz. 40c.**
Little Gem. Pkt. 10c; oz. 75c.
Procumbens — Of trailing habit; profuse bloomer. **Pkt. 10c. oz. 75c.**

ANCHUSA (P) — (Italica) — (Drop more)—A splendid, free blooming plant for hardy borders, height about 5 feet. Flowers a beautiful gentain blue color. Seeds should be sown in sheltered place outdoors and transplanted 2 to 3 feet apart. **Pkt. 15c; ¼ oz. 50c.**

AMARANTHUS — Handsome foliage and interesting flowers, making a striking effect in borders and beds. Thrives in hot, sunny situation with rather poor soil. 2 to 5 feet. Sow early and transplant. **Salicifolius**—Willow leaved. **Pkt. 10c; ¼ oz. 50c.**
Caudatus—Graceful drooping flowers. **Pkt. 10c; oz. 25c.**
Tri-color, or Joseph's Coat—Foliage scarlet, yellow and green. **Pkt. 10c; oz. 75c.**

ARCTOTIS GRANDIS

ARCTOTIS GRANDIS — (African Daisy)—Plants form bushes about two feet across with deeply cut foliage, and daisy-like flowers often 2½ inches in diameter, color of a lilac tinge. **Pkt. 10c; ½ oz. 50c.**

ALL PRICES ON THIS PAGE POSTPAID

ARABIS (P)—(Rock Cress)—One of the earliest and prettiest Spring flowers for rockeries or edging, withstands drought; pure white flowers. Sow in permanent location and thin to 6 inches. Height 6 to 8 inches. **Alpina. Pkt. 10c ¼ oz. 30c.**

BACHELOR'S BUTTON—(Centaurea Cyanus—or Corn Flower)—A hardy, annual, easily cultivated. Produces flowers of a great variety of rich colors on tall, branching stems, with but little foliage. Striking and handsome. Sow in open ground early and transplant. 1 to 2 feet tall.
Fine Single Mixed. Pkt. 10c; oz. 40c.
Fine Dble. Mixed. Pkt. 10c; oz. 75c.
Single Blue. Pkt. 10c; oz. 50c.
Double Blue Florist Strain. Pkt. 10c; oz. 75c.
Double Pink Florist Strain. Pkt. 10c; oz. 75c.

BALLOON VINE—A rapid growing climber. Blossoms very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow where it is to remain. Succeeds best in light warm soil. 10 to 12 feet tall. **Pkt. 10c; oz. 35c.**

BALSAM—("Lady Slipper")—Handsome plants, producing masses of various colored flowers, half hardy. Curious seed pods which, when ripe, will explode when touched. If sown in May should bloom from July until frost. 1 to 1½ feet tall.
Double Camellia Flowered—Mixed. **Pkt. 10c; ¼ oz. 30c.**

BLUE LACE FLOWERS—(Didiscus)—Plants grow about 18 inches in height, and are covered with clusters of tiny petaled flowers, giving the effect of dainty lace. The color is an exquisite light blue. **Pkt. 15c; ¼ oz. 65c.**

CALENDULA—(Pot Marigold)—The well-known Pot Marigold, valued by Europeans for flavoring soups and stews. Flowers are dried in Fall and kept in paper bags for use. In mild climates this plant will bloom nearly all the year around. Colors range through yellow, orange and gold. 1 to 2 feet tall. Plant in early Spring in open ground.
Orange King—Dble. **Pkt. 10c; oz. 50c**
Meteor—Double. **Pkt. 10c.; oz. 25c.**
Lemon Queen Dble. Pkt. 10c; oz. 35c.
Double Mixed. Pkt. 10c.; oz. 20c.

CALLIOPSIS—Very showy and attractive, always covered with a mass of bright flowers, yellow, crimson and maroon. Sow where plants are to remain. In sunny situation will bloom all Summer. Fine cut flowers. 1 to 2 feet tall.

Crimson King.	**Pkt. 10c; oz. 50c**
Golden Wave (Drummondi).	**Pkt. 10c; oz. 50c**
Coronata Maxima.	**Pkt. 10c; oz. 75c**
Tall Single Mixed.	**Pkt. 10c; oz. 35c**
Tall Double Mixed.	**Pkt. 10c; oz. 40c**
Dwarf Mixed.	**Pkt. 10c; oz. 50c**

CANDYTUFT—(Iberis)—One of the most highly prized annuals for beds or masses, very useful for cutting. For early blooms sow indoors, transplanting to garden when 2 to 3 inches high. Sowings every two weeks in the open will flower from July until frost. Grow 1 to 1½ feet.
Umbellata Type—Carmine, Flesh Pink, Rose Cardinal, Crimson, Lavender, White, Mxd. **Pkt. 10c; oz. 65c.**
Coronaria—Giant White Hyacinth Flowered. **Pkt. 10c.; ¼ oz. 30c.**

CANTERBURY BELLS (B)—Campanula) — Very ornamental garden plant growing 2½ feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades; hardy biennial. Sow seeds in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room.
Medium Single—Blue, rose, white or mixed. **Pkt. 10c; ¼ oz. 25c.**
Calycanthema—Cup and Saucer)—White, pink, light blue or mixed. **Pkt. 15c; ⅛ oz. 60c.**
Persicifolia (P)—Very fine, blooms in June. Blue or White. **Pkt. 15c.**
Pyramidals (P) — Stately, hardy plant for pot culture or garden. Blue or White. **Pkt. 10c; ⅛ oz. 50c.**

CARDINAL CLIMBER—Considered the most beautiful and brilliant annual climber. A strong and rapid grower, with fern-like foliage literally covered with a blaze of circular cardinal red flowers from midsummer until frost. Annual. **Pkt. 15c.; ¼ oz. 95c.**

CARNATION (P)—(Dianthus Caryophyllus)—Carnations are Tender Perennials, being easily winter killed. Splendid for cut flowers, deliciously fragrant. Colors pink, white and red. Sow seeds indoors in March Transplant seedlings to other boxes when 1 inch high. Keep them growing well until soil is warm, then transfer to open garden. Height 1 to 1½ feet. **See Plant Dept. also.**
Chabaud Everblooming — Extra Choice Double Mixed—Flowers in five to six months. **Pkt. 15c.**
Double Grenadin — Comes into bloom very early and the charming, double, scarlet flowers are very valuable for forming bouquets. **Red, White. Pkt. 15c.**
Margaret—Finest Double Mixed—Bloom in four months from seed. **Pkt. 10c; ⅛ oz. 50c.**
Giant or Malmaison—Mixed. Pkt. 15c.
Double Dwarf Vienna — Mixed — Large flowered and comes into bloom early, producting flowers of many colors and beautiful markings; largely double. **Pkt. 10c.**

CASTOR BEAN—(Ricinus)—Tropical appearing foliage plant. Highly ornamental, of stately growth, large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet tall.
Sanguineus—Brilliant scarlet stems and fruit. **Pkt. 10c; oz. 25c.**
Zanzibariensis—Surpasses all in size and beauty of colors. **Mixed. Pkt. 10c; oz. 25c.**
Best varieties mxd. Pkt. 10c; oz. 25c.

CATCHFLY—(Silene)—A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers in various shades of pink. Fine for border or rockery. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Sow in boxes and transplant as soon as large enough
Fine Mixed. Pkt. 10c; oz. 45c.

CELOSIA CRISTATA—(Crockscomb) Very attractive and showy, producing massive heads of deeply colored flowers. Colors, red, purple, and yellow. Sow very thinly in boxes indoors, transplanting to other boxes or thumbpots until little combs appear. Grows 9 to 12 inches tall.

Cockscomb Tall Mixed.	**Pkt. 10c; oz. $1.00**
Dwarf Empress.	**Pkt. 10c; ¼ oz. 75c**
Dwarf Fine Mixed.	**Pkt. 10c; ¼ oz. 65c**

CELOSIA PLUMOSA—(Feathered)—Large plumy heads. For pots or open ground. Keeps well when cut. 1 to 2 feet tall. **Finest Mixed. Pkt. 10c; oz. $1.00.**
Childsii—(Chinese Wool Flower)—A unique form of feathered coxcomb, growing 2 to 3 feet high, each branch terminated with a large head of rich crimson flowers that look as if made of silky wool. Effective in beds and borders. Valuable for cutting, as they can be dried, retaining their bright colors for weeks. **Pkt. 15c; ¼ oz. 75c.**

CENTAUREA—Sweet scented flowers on long, strong stems. Will last several days when cut. Sow where plants are to remain, thinning to 12 inches apart. Grows 1 to 3 ft. tall.
Imperials—(Giant)—White, purple, rose, deep lavender, and mixed. **Pkt. 10c; ¼ oz. 35c.**
Suaveolens—Yellow Sweet Sultan. Pkt. 10c; ¼ oz. 30c.
Moschata Mxd.—Pkt. 10c; ¼ oz. 30c.
Candidissima—(Dusty Miller). Pkt. 15c; ⅛ oz. 75c.

CHRYSANTHEMUM — Very showy, effective and desirable as Summer flowering plants. Hardy annuals. Sow seeds in flats very early in Spring and transplant to garden when soil is warm. Grows 1 to 2 ft.
Carinatum Hybrida—Finest double mixed. **Pkt. 15c; ¼ oz. 25c.**
Carinatum and Segetum—Varieties fine mixed, contain a fine range of colors. **Pkt. 10c; oz. 50c.**
Coronarium—Double finest mixed. **Pkt. 10c; oz. 40c.**

CINERARIA (B)—Magnificent and indispensable flowering plants for the window gardens. White, blue, violet, and crimson shades, covering the plant with a sheet of bloom. Should be sown under glass in very fine soil.
Hybrida Grandiflora—Choicest mixed (Pot Plant). **Pkt. 50c.**
Hybrida—Fine Mixed. Pkt. 25c.
Dusty Miller—(Maritima)—Beautiful silvery-leaved border plant; half hardy perennial. **Pkt. 10c; ¼ oz. 35c.**

CLARKIA—Hardy annual of easy growth, produces a fine effect massed in beds, bright and attractive. Fine for cutting. Does well in shade. Sow early in open ground. Grow 1 to 2 feet tall.

ELEGANS DOUBLE

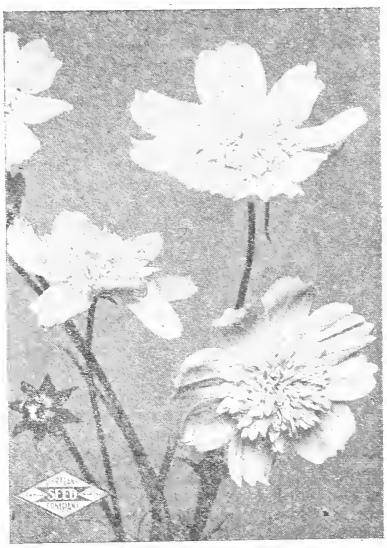
Chamois—With touch of pink. Pkt. 10c; ¼ oz. 35c.
Scarlet Queen. Pkt. 10c; ¼ oz. 35c.
Salmon Queen. Pkt. 10c; ¼ oz. 35c.
Purple Prince. Pkt. 10c; ¼ oz. 35c.
White. Pkt. 10c; ¼ oz. 35c.
Fine Mixed. Pkt. 10c; ¼ oz. 30c.

CLEOME—A splendid plant for large beds or shrubbery border. Of branching habit, each branch producing a large head of attractive flowers. Sow in open ground as soon as weather is warm and settled. Height 3½ feet. Fine for bees.
Mixed. Pkt. 10c; oz. 65c.

COBEA SCANDENS—(Plants in Season)—A handsome, rapid-growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils. Seeds should be planted on edge in shallow boxes of soft soil, covering with glass until seedlings appear. Transplant about May.
Purple. Pkt. 10c; ¼ oz. 25c.
White. Pkt. 10c; ¼ oz. 50c.

COIX LACHRYMAE—(Job's Tears)—A broad-leaved ornamental grass, having large, tear-shaped, hard shining, pearl-gray seeds. Plant in prepared seed bed in open. **Oz. 10c.**

COLUMBINE (P) — (Aquilegia) — Universal favorite for hardy borders and beds, for no other plant has so airy a grace nor is more generous of its blooms or more effectively adapted for cut flowers.
Single Mixed. Pkt. 15c; ¼ oz. 50c.
Double Mixed. Pkt. 15c; ¼ oz. 50c.
Long Spurred Hybrids—Mrs. Scott Elloits strain, extra large flower, sweet scented, long spurred and best range of color obtainable. **Pkt. 25c; 1/16 oz. 50c.**



COSMOS—Beautiful autumn blooming plants producing thousands of artistic flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for Summer and Fall decorations. In this climate the late flowering types do not, as a rule, bloom much before early frosts, hence we list only early flowering types which by careful selection now have flowers as large as the late flowering kinds. Seed sown in the open ground in April should produce plants covered with blooms in July, or 6 weeks to 2 months earlier than late flowering. Plant not less than 18 inches apart in rows or in masses in beds. Pinching out tops when plants are a foot high makes them bushy and sturdy.

Cosmos — Extra Early Mammoth Flowering—Crimson, Pink, White. Pkt. 10c; oz. 65c.

Finest Mixed. Pkt. 10c; oz. 60c.

EXTRA EARLY DOUBLE CRESTED.
Crimson. Pkt. 20c; ⅛ oz. $1.00.
Pink. Pkt. 20c; ⅛ oz. $1.00.
White. Pkt. 20c; ⅛ oz. $1.00.
Finest Mixed. Pkt. 20c; ⅛ oz. 90c.
Klondyke—Blooms very early and continuously 3 to 4 ft. high; flowers large, orange, borne on long stems. **Pkt. 10c; ¼ oz. 75c.**

COREOPSIS (P) — (Lanceolata) — Large, showy, bright yellow flowers produced in great abundance from June until frost; fine for cut flowers. Sow seeds indoors very early, transplanting to open when soil is warm. Height 1 to 2 feet. **Pkt. 10c; oz. 65c.**

CYPRESS VINE—(Ipomoea Quamoclit)—Climber with rapid growth. Has delicate fern-like foliage and great numbers of star-shaped blossoms with long tubes. Soak seeds over night in warm water, then sow where vine is to grow. Does best in warm, sunny location. Grows 10 to 15 feet. **White, Scarlet or Mixed. Pkt. 10c; oz. 75c.**

DAHLIA (P)—A magnificent, Fall-blooming tuberous-rooted plant. Sow seeds in boxes indoors very early, transplanting to open when danger from frost is past. Will bloom first season. Tubers of the best ones may be saved for following season.

Double Mixed. Pkt. 15c; ⅛ oz. 50c.
Single Mixed. Pkt. 10c; ⅛ oz. 40c.
Cactus—Flowers odd and fantastic in shape; all colors.
Finest Mixed. Pkt. 15c; 1-16 oz. 50c.

DAISY (P)—Bellis Perennis)—Popular low-growing plant bearing beautiful flowers. Hardy perennial. Sow in boxes about August and transplanted to cold frame or some location where they may be protected the first Winter. Plant in permanent location early in Spring. Height 6 inches.

Extra Double Mixed. Pkt. 10c; ⅛ oz. 50c.
Longfellow—Double dark red. **Pkt. 15c; 1/16 oz. 35c.**
Giant Double Monstrosa—Dark red, white, rose-pink. **Pkt. 25c; 1/16 oz. 60c.**
Shasta Alaska—Very hardy; profuse bloomers; flowers very large and borne on long stems, single; petals pure glistening white, dark center. **Pkt. 15c; ⅛ oz. 95c.**

DATURA — Large, strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved like Dahlias. Sow in sheltered bed in open and transplant when 2 to 3 inches high. Give plenty of room and rich soil. Height 2 to 3 feet.

Fastuosa—Double mixed. Pkt. 10c; oz. 65c.
Cornucopia—Pkt. 15c; oz. $1.25.

DELPHINIUMS—See Page 39

DIMORPHOTHECA AURANTIACA—(Orange African Daisy)—Extremely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across, of a unique rich glossy orange gold, with dark disc and halo. Presenting a magnificent sight in full bloom. **Pkt .10c; oz. 50c.**

DIGITALS (B)—(Fox Glove)—A tall growing biennial with large leaves and spikes of vari-colored and spotted flowers. Fine for borders or background. Sow seeds in prepared seed bed in May. Keep seedlings well watered and transfer to permanent location in July or August. Give rich soil and plenty of room. Height 3 to 6 feet.
Gloxiniflora—Mixed. Pkt. 10c; ¼ oz. 25c.

EUPHORBIA — Branching, bushy plants with smooth, glossy leaves of various colors. Suitable for beds or borders. Sow in open ground, transplanting when few inches high. Give plenty of room. Good foliage plant. Height 2 to 3 feet.

Variegata, Snow on Mountain. Pkt. 10c; ¼ oz. 25c.
Heterophyllia—Painted leaf. Annual poinsettia. 3 feet. **Pkt. 15c; ¼ oz. 35c.**

FORGET-ME-NOT (P)—(Myosotis) Beautiful Spring favorites of easy growth, bearing clusters of lovely, small blue flowers. Can be left in open ground except in very cold latitudes. Fine for borders and shady situations. Sow in box or prepared bed in the open. Height, one foot.

Alpestris—Of trailing habit, with pretty flowers. Blue or mixed. **Pkt. 10c; ¼ oz. 65c.**
Victoria — Flowers large, bright azure blue; fine for borders. **Pkt. 10c; ⅛ oz. 70c.**
Semperflorens—Dwarf; continuous bloomer; blue. **Pkt. 15c; ⅛ oz. 70c.**

FOUR O'CLOCK—(Mirabilis Jalapa)—Marvel of Peru—Easy culture, bearing a profusion of bright flowers of various shades. Flowers open at four o'clock, close in morning. Sow seeds early in the open and transplant. Grows 2 to 3 feet high.
Choice Mixed. Pkt. 10c; oz. 25c.

GAILLARDIA—(Blanket Flower)—Very showy garden plant, with brilliant flowers; free blooming from early Summer until Autumn; especially effective in masses. Sow early where plants are to bloom. Colors crimson and orange. Splendid cut flowers. Height 1 to 2 feet.

Picta Lorenziana — Double; finest mixed; annual. **Pkt. 10c; ¼ oz. 25c.**
Picta Single—Finest mixed. **Pkt. 10c; ¼ oz. 20c.**
(P) Grandiflora Maxima. Pkt. 10c; ¼ oz. 40c.

GERANIUM (P)—A half-hardy perennial, easily and quickly grown from seed. Sow thinly in boxes indoors, covering with glass until seedlings appear. When about one inch high transplant to small pots in rather poor soil firmly pressed down. Can later be re-potted in larger sizes or transferred to open garden.

Zonale—Extra choice, single mixed, the well-known bedding Geranium. **Pkt. 15c; ⅛ oz. 95c.**
Lady Washington—(Pelargonium)—Foliage green; flowers large, Finest mixed. **Pkt. 25c; 100 Seed $2.25.**

GEUM (P) — (Chiloense) — Hardy, free-blooming plants. Fine for bouquets. Flowers crimson, double. Blooms all Summer. Height 8 to 12 inches.

Mrs. Bradshaw—Scarlet. **Pkt. 25c; ⅛ oz. 75c.**

GODETIA — Profuse and constant bloomers, compact and bushy in growth. Colors rose, crimson, white and pink. Sow indoors in boxes and transplant. Succeeds in poor soil. Height 1 foot.

Dwarf—Fine Mixed. Pkt. 10c; ¼ oz. 35c.
Gloriosa—Dark Red. Pkt. 10c; ¼ oz. 35c.
Duchess of Albany—White. **Pkt. 10c; ¼ oz. 35c.**

GOURDS—Good climber. For covering verandas and trellis work; rapid growth, bearing fruits of curious shapes. Plant after soil is warm. Height 10 to 12 feet.

Calabash. Pkt. 10c; oz. 35c.
Mixed Varieties. Pkt. 10c; oz. 35c.

GYPSOPHILA — Easily raised from seed. Grows from 18 to 24 inches, bearing beautiful, large, star-shaped flowers in great profusion. First sowings in flats very early and transplanted. Make later sowings in open ground.

Grandiflora Elegans—White Paris market. **Pkt. 10c; oz. 30c.**

GYPSOPHILA (P)—(Baby's Breath)—A pretty, free-flowering plant. Fine for bouquets. Seed very small. Sow in boxes indoors, covering lightly with sifted soil firmly pressed down. Transplant soon as large enough to handle. Height 2 to 3 feet.

Paniculata—Foliage fine; covered with tiny, pure white flowers. Hardy **Pkt. 10c; ¼ oz. 25c.**
Paniculata Fl. Pl. New.—About 50% double. **Pkt. 15c; 1-16 oz. $1.50.**

HELICHRYSUM—(Straw Flower)—Monstrosum—Ever lasting. One of the best for Winter bouquets. Hardy annual. Colors, red, yellow and white. Effective for bedding. Sow in open and transplant or thin to 12 inches.

Double Mixed. Pkt. 10c; ¼ oz. 25c.

HOLLYHOCKS — (New Annual) — Hybrida Semperflorens—This splendid variety will bloom in August, from Spring planting, continuing until frost. This is a great advantage, as other varieties do not bloom until the second year.

Fines Single Mxd. Pkt. 10c; ¼ oz. 30c.

HOLLYHOCK (B), or Althaea — A great improvement over the old type, the flowers being larger and richer colored. for backgrounds there can be nothing better. Hardy. Should be sown in open from Spring to mid-Summer, transplanting in late Fall. Give rich soil for best results. Five feet high.

Chaters—Superb strains. Double varieties; of greatest perfection.
Scarlet, Rose, Newport Pink, Maroon, Yellow, White. Mixed. Pkt. 10c; ¼ oz. 85c.

HUNNEMANNIA — (Giant Yellow Tulip Poppy or Bush Eschscholtzia)—Best of the Poppy family for cutting. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup yellow, poppy-like blossoms, and never out of flower until a hard frost. Height 2 to 3 feet.

Fumariaefolia—Pkt. 10c; oz. 75c.

HYACINTH BEAN—(Dolichos Lablab)—Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Sow seeds early where vine is to remain. **Mixed. Pkt. 10c; oz. 15c.**

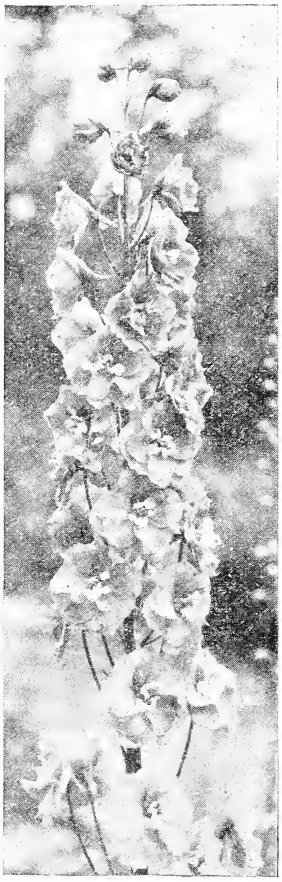
ICE PLANT — (Mesembrianthemum Crystalinum)—Pretty Summer trailing annual for vases and rock work; leaves covered with ice-like drops. Sow seeds early in boxes. Height ½ to 1 feet. **Pkt. 10c; oz. 75c.**

KOCHIA CHILDSII—(Summer Cypress)—Forms symmetrical decorative bushes, foliage green, turning to fiery red in Autumn. Sow in open and thin to 15 inches. Valuable for Summer hedges. Height 1 to 2 feet. **Pkt. 10c; oz. 35c.**

KUDZU VINE (P)—Pueraria Thumbergiana)—Beautiful Japan climber, hardy perennial with fragrant purplish-violet, wisteria-like flowers. Ht. 10 to 12 ft. **Pkt. 10c; oz. 75c.**

DELPHINIUMS

"THE NEW POPULAR FLOWER OF THE DAY"



DELPHINIUMS (Perennial Larkspur)

These profuse blooming plants, with their tall spikes of many colored flowers present most striking effects when planted in groups. During the past year or two the culture of delphiniums has advanced tremendously, particularly here in the Pacific Northwest. Because they offer such practical possibilities in adding color, character and charm to formal garden and door-step alike, delphiniums have become the flower of the day and no up-to-date garden is complete without them. This advancement has not been confined to the development in size and coloring alone, but, in a few extraordinary varieties, fragrance as well.

Right here in Portland, through the persistent, painstaking work of the "Wing" Delphinium Gardens, there has been developed a most wonderful mixture which shows its superiority in size of blooms and massive spikes, as well as in the exquisite colorings which reach the heights and depths of indescribable blues, purples, mauves and iridescent tones not to be found in ordinary varieties. The parentage of this splendid mixture lies in the celebrated prize-winning Blackmore and Langdon strain, which has taken the largest number of "Awards of Merit" in the English Flower Shows. During 1924 and 1925 the Blackmore and Langdon collections of Delphiniums were the only ones to receive the much coveted Royal Horticultural Society Gold Medal.

Large sums of money were spent in purchasing these prize-winning strains; time and patience expended in cultivation, elimination of weak varieties and in re-selection, in an endeavor to find not only the rarest in size and coloring, but those varieties best suited to our climate and soil, and with the highest possible germinating power in the seed.

That this has been accomplished, we feel confident from the favorable comment and unstinted praise bestowed when these beautiful blooms were exhibited before the Garden Club last summer. This year for the first time, we are in a position to offer flower-lovers an opportunity to procure seed of this splendid collection which we are putting out under the name of Oregon Giants Diamond Mixed. In order that those who are at all familiar with the better class of delphiniums may judge the quality of this wonderful mixture, we mention a few of the far-famed prize-winning varieties which were the progenitors from which this collection was evolved. Among these were Lord Lansdowne, S. W. Smith, Sargent Beranger, Millicent Blackmore, Sir Douglas Haig, Glory, Statuaire Rude, Perfection and Mrs. Townley Parker.

OREGON GIANTS DIAMOND MIXED DELPHINIUMS — Regular packets containing 100 seeds or more each, **$1.00 per pkt.; half pkts. 65c each.**

We can also offer a limited quantity of a mixture developed by the **"Wing" Delphinium Gardens** from stock of the famous Watkins Samuels, "Wrexham" strain of Delphiniums from the North of Wales. The range of colors in this mixture runs from the most delicate combination of mauve and light blue, Crater Lake blue, heliotrope, pink-lavender, creamy-white, deep blue, purple, etc. With proper cultivation and care the flower-blooms will measure two to over three inches in diameter and the plant sometimes reaches a height of over seven feet. This mixture contains such varieties as Aviator, Annie Laurie, Robin Hood, Masquerader, Springtime, Moonlight, Sir Galahad. High Tide, Morning Glory and Youth. Small amounts of some of above varieties may be had on special order.

DIAMOND MIXTURE "WREXHAM" Strain Delphinium, $1.00 pkt.

Standard Varieties

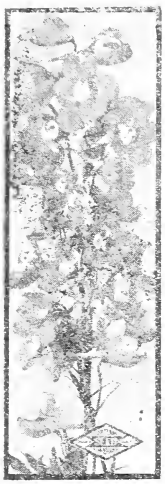
We also offer the following very excellent collection of the regular standard sorts of Delphiniums for those who desire some of the older and less expensive strains.

Chinese Azure Fairy—Blue. **Pkt. 10c; ¼ oz. 50c**
Chinese Blue Butterfly. Pkt. 10c; ¼ oz. 60c.
Chinese Album White. Pkt. 10c; ¼ oz. 50c.
Belladonna—Light Blue. **Pkt. 25c; ⅛ oz. $1.35.**
Cardinale—Scarlet. Pkt. 15c; ⅛ oz. $1.00.
Bellamosum—Dark Blue. **Pkt. 15c; ⅛ oz. $1.25.**

One pkt. each above six varieties for 60c. See plant department for individual plants and clumps.

CULTURE—Like every other plant, the Delphinium well repays good cultivation and for that reason the soil shold be well and deeply dug, and liberally manured with well decomposed animal manures if possible. On light and well-drained warm soils, we advocate autumn planting from third week in August to the first week in November giving the preference to September. On heavy and cold wet soils **it will be safer** to defer planting until early March up **to first week in April. If** early February planting is desired prepare a "cold frame", or, fill a shaddow box with two-thirds sand and one-third leaf mould. Sow seed in shallow drills or trenches 1½ inches apart. Cover with a fine sprinkling of sand and press down with a board. Water through a burlap sack so as not to disturb the seed; covering box with glass. When plants have three leaves, transplant in larger box or in the open.

When spikes are growing rapidly, copious supplies of water should be given if weather is dry, and occasional watering with weak liquid manure will benefit the plants considerably, giving increased size of flowers and length of spike and generally improving the color and brilliancy of the flowers. When well established, spikes should be thinned when three or four inches high, and if extra large specimen spikes are required, three or four, or less in some cases, are sufficient to remain. It is necessary to see that the growths are staked in time to prevent damage by winds. Slugs and snails are the greatest enemies of Delphiniums, and the best plan to prevent their attacks, is to place a good covering of sharp cinder ashes over the crowns in early autumn.



Larkspur

LARKSPUR — The annuals are quite hardy and bloom in late Summer months, furnishing flowers of striking beauty in form and color. Tall varieties are suitable for shrubberies and borders, while the dwarf sorts produce charming effects in beds. Height 1 to 2 ft.

Dwarf Rockets—Finest colors. Double Mixed. **Pkt. 10c; oz. 75c.**

Tall Double Stock Flowered—Lustrous Carmine. Dark blue, Light Blue, Rose, White or Finest Mixed. **Pkt. 10c; oz. 65c.**

LEMON VERBENA (P)—Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower. Height 1 to 2 feet. (Usually propagated from cuttings.) **Pkt. 15c; ⅛ oz. 60c.**

LINUM—(Grandiflorum Rubrum)—Scarlet Flax—One of the most showy bedding plants, fine foliage, with brilliant scarlet-crimson flowers. **Pkt. 10c; oz. 45c.**

Perenne (P)—Pearl blue flowers; graceful. **Pkt. 10c; ½ oz. 35c.**

Perenne Album (P)—Milk white flowers, decorative. **Pkt. 10c; oz. 50c.**

LOBELIA (P)—(Cardinalis)—Flowers rich red, dark green foliage. Especially valuable for border decoration. Sow in boxes indoors. Cover very lightly with sifted soil and press down firmly. Cover box with glass until seedlings appear. If sown in January or February, will usually bloom in May. Height 6 to 12 inches. **Pkt. 15c.**

LOBELIA—Delicate, low-growing, annual plants of the greatest value for borders, ribbons, edgings, rock work and hanging baskets. Sow very thinly in boxes, covering with glass until seedlings are through surface. Height 6 to 8 inches.

Saphir—Deep blue with white eye, long, drooping flower stalks; grows rapidly; trailing. **Pkt. 15c; ¼ oz. $1.50.**

Speciosa—Dark blue and dark leaved. Similar to Crystal palace but not so dwarf. **Pkt. 10c; ¼ oz. 65c.**

Gracilis—Blue, trailing; beautiful for baskets. **Pkt. 10c; ¼ oz. 40c.**

Crystal Palace Compacta — Dwarf flowers, very fine and rich, bright blue; finest for bedding and edging. **Pkt. 10c; ¼ oz. 90c.**

Royal Purple—Very dark-blue with white eye. **Pkt. 10c; ¼ oz. 75c.**

LUPINUS — Hartwegi. Dark Blue, Light Blue, Rose White, Mixed. **Pkt. 10c; oz. 35c.**

LUPINUS (P)—Shrubby plants, bearing long spikes of flowers. Colors white and pink, occasionally blue. Sow in open early in Spring. Transplant. Give plenty of room.

Perennial—Mixed. Pkt. 10c; oz. 50c.

LYCHNIS (P)—(Rose Champion)—Jerusalem Cross— Few plants produce more brilliantly colored blossoms. Flowers are borne in clusters and continue fresh and brilliant for a long time. Hardy, 1 to 2 feet high. Orange, scarlet and crimson. Seeds should be sown where plants are to remain, thin to prevent crowding.

Haageana Hybrida—Mixed. Pkt. 15c; ⅛ oz. 50c.

All Prices On This Page Are Postpaid

MARIGOLD — (Tagetes) — A hardy plant in dwarf and tall varieties; foliage bright green and deeply cut. Flowers are various shades of yellow and brown. Sow seeds early in flats and transplant to garden when 3 to 4 inches tall. For specimen plants soil should be light, rich and deeply spaded. Height 1 to 2½ feet.

African—Tall or Dwf., Dble. Fistulosa Type Mxd. **Pkt. 10c; ¼ oz. 35c.**

French — Dwarf or Tall Double Mixed. **Pkt. 10c; oz. 65c.**

Golden Ball—New Dwarf. French Double. Compact. **Pkt. 10c; oz. 65c.**

Little Brownies—(Legion d'Honneur) — Dwarf Double Brownies. **Pkt. 10c; oz. 65c.**

MIGNONETTE—(Reseda)—A quick-growing fragrant annual. Produces the largest and finest spikes of blossoms during cool, moist weather of early Spring and late Fall months, but will flower freely throughout the Summer from seed sown early in Spring. A second planting should be made about the first of August. Sow seeds where plants are to remain. Difficult to transplant. Height 1 foot.

Odorata Grandiflora — Large, well-formed, fragrant flowers. **Pkt. 10c; oz. 25c.**

Machet—White. White with reddish tinge. Best white Dwarf variety. **Pkt. 10c; oz. 75c.**

Golden Queen—Dense, dwarf growth; flower golden yellow; fragrant. **Pkt. 10c; oz. 75c.**

Dobbies Giant Red—Mammoth red spikes. Very fine. **Pkt. 10c; ¼ oz. 35c.**

MIMOSA—(Sensitive Plant)—Pudica—A good foliage plant. Very curious and interesting leaves, close if touched or shaken. Height 1 to 2½ ft. **Pkt. 10c; oz. 75c.**

MOON FLOWER—(Ipomoea Mexicana Grandiflora)—Rapid growing climber belonging to the "Morning Glory" family. At night and on cloudy days vine is covered with fragrant white flowers 4 to 5 inches in diameter. Seeds must be soaked then planted where vine is to remain. **Pkt. 10c; ¼ oz. 25c.**

MORNING GLORY—The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation, attaining a height of 10 to 12 feet. Very fine for covering arbors, trellises, etc. The Minor, or Dwarf varieties flower very freely and do not require support. Plant seeds early where plant is to remain.

Convolvulus Major—Tall, choice single, mixed all colors. **Pkt. 10c; oz. 15c.**

Double Mixed—Tall. **Pkt. 10c; ¼ oz. 35c.**

Convolvulus Minor—Dwarf mixed. **Pkt. 10c.**

Imperial Japanese Fringed—These have very large fringed flowers in a great variety of the exquisite colorings; variegated foliage. **Mixed—Pkt. 10c; ½ oz. 40c.**

NEMESIA—A splendid border plant with the widest range in color. Is very early, a continuous bloomer and stands a lot of hardship. If topped, and watered when beginning to seed it will start blooming all over again. The Orchid-like flowers vary in color, blue, orange, rose, yellow, etc.

Blue Gem—Flowers almost like Forget-Me-Not. **Pkt. 20c each.**

Triumph Mixed. Pkt. 20c each.

NICOTIANA—A very showy plant, producing star-shaped flowers of delicious perfume. Taken up in the Fall, cut back and potted, will bloom freely all Winter. Half hardy annual; 3 ft. high. Sow seeds in boxes indoors or in a sheltered situation in the open. For the best results give plenty of room, rich soil and sunlight.

Affinis—White. Sweet scented. **Pkt. 10c.**

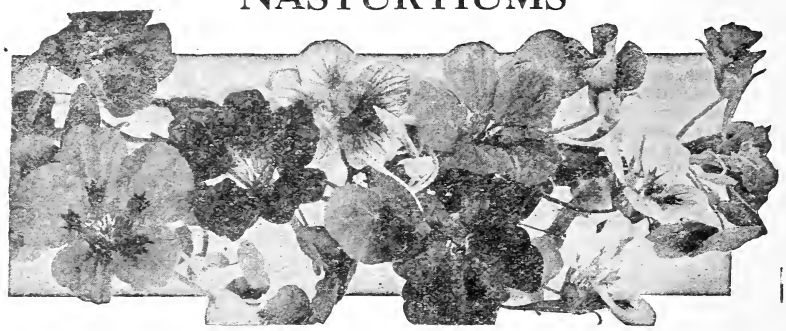
Sylvestris—Pure white, fragrant, drooping flowers; deep green foliage. **Pkt. 10c; oz. 75c.**

Sanderae—Resembles the "Affinis," but does not close up in the daytime. The plants are covered with carmine-red, fragrant flowers. **Pkt. 10c; oz. $1.25.**

OENOTHERA—(Evening Primrose)—Elegant for growing in an exposed position, in border or on rockery; constant bloomer all Summer. Shades of yellow. Sow seeds early in boxes, covering very lightly with fine soil firmly pressed down. Transplant seedlings.

Fine Mixed. Pkt. 10c; oz. 60c.

NASTURTIUMS



NASTURTIUMS are hardy annuals, of easy culture and flower best where the soil is not too rich. The new hybrids include various shades of rose, salmon, bright red, pale yellow, etc., either self-colored or spotted, mottled, striped and margined. For covering trellises, fences, arbors, piazzas, trailing from vases, over rockwork, for bedding, etc., nothing can equal the gorgeous effect produced by their marvelous wealth of bloom, borne in uninterrupted splendor from early Summer until cut down by frost. The seeds, picked green and pickled in vinegar have a piquant, appetizing flavor that is a valuable addition to relishes or pickles.

Tall Varieties

CHAMELEON — Variable flowers marked and blotched in many brilliant colors.

CRIMSON—Large, velvety crimson flowers, very attractive.

CLOTH OF GOLD—Fiery red, golden leaved.

DUNNETT'S ORANGE—(Sunlight)—Clear, rich golden yellow.

MOONLIGHT-PEARL—Soft primrose.

PRINCE HENRY—Fine lemon yellow, clear carmine blotches.

REGELIANUM—Purplish crimson.

SALMON QUEEN—Extra large light salmon, suffused rosy salmon.

VON MOLTKE—Bluish rose.

NAMED VARIETIES — Pkt. 10c; oz. 15c; ¼ lb. 50c.

MIXTURE—Standard tall varieties. **Pkt. 10c; oz. 15c; ¼ lb. 40c.**

Dwarf Varieties

CHAMELEON — Variable colorings in bronze, crimson and yellow, rich markings.

CLOTH OF GOLD—Brilliant scarlet, golden yellow leaves.

EMPRESS OF INDIA — Intense scarlet, purplish green leaves.

PRINCE HENRY—Lemon yellow, with carmine blotches.

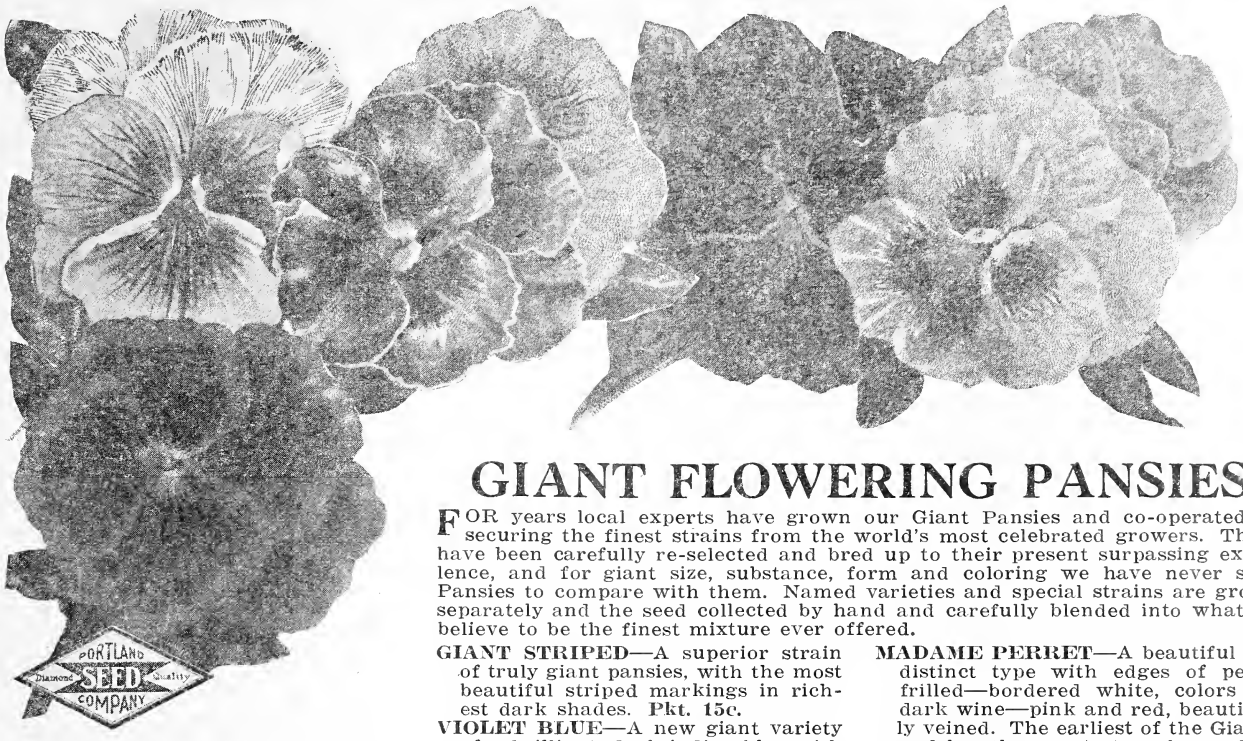
REGELIANUM—Purple-garnet.

RUBY KING—Bluish rose.

VESUVIUS—A rich salmon orange, dark foliage.

NAMED VARIETIES — Pkt. 10c; oz. 20c; ¼ lb. 60c.

MIXTURE — Standard varieties. **Pkt. 10c; oz. 20c; ¼ lb. 50c.**



GIANT FLOWERING PANSIES

FOR years local experts have grown our Giant Pansies and co-operated in securing the finest strains from the world's most celebrated growers. These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varieties and special strains are grown separately and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered.

ADONIS—A distinct and beautiful shade of light blue with white center and dark blotch. **Pkt. 15c.**

GOLDEN QUEEN—A rich, pure yellow of the grandest form and size. **Pkt. 15c.**

GIANT DARK BLUE—A splendid blue black, very elegant. **Pkt. 15c.**

GIANT STRIPED—A superior strain of truly giant pansies, with the most beautiful striped markings in richest dark shades. **Pkt. 15c.**

VIOLET BLUE—A new giant variety of a brilliant, dark indigo blue with violet luster, each petal having a large, dark brown, viened blotch. Edges slightly ruffled. **Pkt. 15c.**

KING OF THE BLACKS—(Giant)—Immense velvety back flowers of the finest quality, the largest and best black pansy. **Pkt. 15c.**

SNOW FLAKE—Pure white, of extra fine quality. **Pkt. 15c.**

MADAME PERRET—A beautiful and distinct type with edges of petals frilled—bordered white, colors are dark wine—pink and red, beautifully veined. The earliest of the Giants, and has the sweetest perfume. **Pkt. 15c.**

CORNFLOWER BLUE—A dainty blue, large, good substance. **Pkt. 15c.**

MASTERPIECE—Giant Ruffled—The mammoth size, richness and beauty of colorings and frilled or ruffled character of the petals make "Masterpiece" one of the most distinct and interesting Pansies. **Pkt. 25c.**

ONE PACKET EACH OF TEN VARIETIES NAMED ABOVE FOR $1.25.

FANCY STRAINS OF MIXED PANSIES

OREGON GIANT PANSIES—MIXED—Our Oregon Giants are a selection of the finest strains and named varieties from the foremost American and foreign growers. This seed has been gathered by hand for several seasons from selected plants grown here in Oregon and will produce plants and flowers of unsurpassed quality in the most pleasing colors and shades. **Pkt. 25c; ¼ oz. $1.25; oz. $4.50.**

FINE MIXED—Fine assorted colors. **Pkt. 10c; ¼ oz. 50c.**

TRIMARDEAU GIANTS—Remarkably large size, robust growth; very fine. **Pkt. 10c; ¼ oz. 85c; oz. $3.00.**

OREGON GIANT PANSIES IN BLOOM—From March until June we offer our famous **"Oregon Giant"** Pansy plants in full bloom. Put up one dozen in a package. Mailing wt. 4 lbs. **Price 75c and $1.00 per package, not prepaid.**

PASSIFLORA (P)—(Passion Flower) Most interesting and well known climber, bearing singularly beautiful blue flowers. Height 10 to 12 feet. **Pkt. 10c; ¼ oz. 65c.**

PEAS — Perennial (P) — (Lathyrus Latifolius)—Similar to Sweet Peas but not so fragrant; they bloom through a long season, are perfectly hardy, and will live for years. Should be sown near a fence or other support, thinning to 2 to 3 feet apart. Height 4 to 6 feet. **Mixed. Pkt. 15c; ½ oz. 95c.**

PENTSTEMON (P)—(Beard Tongue) — Brilliant bell-shaped flowers borne on long spikes, and produced abundantly all Summer. Colors range through red, rose, cherry, carmine, pink and purple. Should be sown indoors. Cover lightly and press down firmly. Transplant to open. **Mixed. Pkt. 10c; ⅛ oz. 50c.**
"Sensation"—As a bedding plant this takes rank with the Petunia. About 2 ft. Every branch a spike of flowers in a wide range of bright colors. Treated as Petunias. **Pkt. 15c; ⅛ oz. 90c.**

PETUNIA — (Hybrida) — During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy Annual. Sow seeds very thinly indoors under glass. Care should be taken to save the weaker seedlings as they produce the finest flowers. Transplant to garden when soil is warm. Height 1 to 1½ feet.

Single Choicest Mixed. Pkt. 15c.

Double Choicest Mixed. Pkt. 35c.

Double Fringed Mixed. Pkt. 50c.

Giants of California—Choicest Ruffled Mixed (large throat). **Pkt. 25c.**

Elks Pride—Deep (Elks) Purple. Large flowers, fine for window boxes, borders and bedding. **Pkt. 35c.**

City of Portland—One of the finest shades of pink. Flowers large and ruffled. Fine for border or bedding. **Pkt. 35c.**

Rosy Morn—Pink white throat, fine for bedding. **Pkt. 20c; ⅛ oz. 60c.**

PINKS—The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy, and become perennial in warm climates. Sow seeds in boxes indoors and plant out in good soil when 1 to 2 inches high.

Chinensis Type—Single Mixed. Pkt. 10c; ¼ oz. 25c.

Double Mixed. Pkt. 10c; ¼ oz. 35c.

Heddewigii Type

Crimson Belle—Single deep crimson. **Pkt. 10c; ¼ oz. 25c.**

Eastern Queen—Single rose. **Pkt. 10c; ¼ oz. 25c.**

Vesuvius—Single orange-scarlet. **Pkt. 10c; ¼ oz. 35c.**

Finest Single Mixed. Pkt. 10c. oz. 75c.

Fireball—Double deep scarlet. **Pkt. 15c; ¼ oz. 60c.**

Salmon King—Double salmon. **Pkt. 15c; ¼ oz. 65c.**

Snowball—Dle. white. **Pkt. 15c; ¼ oz. 65c.**

Finest Double Mixed. Pkt. 10c; ¼ oz. 30c.

PORTULACA—(Rose Moss)—Brilliant dwarf annuals, only 6 inches high, luxuriating in warm situations, and blooming profusely in early Summer to Autumn. For low beds and masses of color from Spring until frost they are indispensable; colors range through innumerable shades of red, yellow, pink, white, striped, etc. Sow seeds indoors. Thrive best in hot and dry situation.

Single Mixed. Pkt. 10c; ¼ oz. 45c.

Double Mixed. Pkt. 10c; ⅛ oz. 75c.

PHLOX DECUSSATA (P)—(Perennial)—Large compact heads of bloom from mid-Summer until Fall. Height 2 to 4 feet. Wide range of colors. Sow seeds early in boxes and transplant seedlings once before placing in permanent location. Usually blooms the first season. Requires 5 to 6 months for seed to germinate. See Plant Dept. for finest named varieties.
Mixed. Pkt. 10c; ⅛ oz. 60c.

PHLOX DRUMMONDI — Unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. For cutting, for bouquets or for bedding in masses they are unsurpassed. Hardy annual, one foot high. Sow as soon as soil is warm. Transplant about one foot apart.
Large Flowering—Crimson, white or mixed. **Pkt. 15c; ⅛ oz. 50c.**
Chamois Rose. Pkt. 10c; ¼ oz. 75c.
Isabellina—Pale yellow. **Pkt. 10c; ¼ oz. 75c.**
Kermesina Splendens — Crimson with white edge. **Pkt. 10c; ¼ oz. 75c.**
Diamond Mixture. Pkt.10c; ¼ oz.75c.
Dwarf Mixed. Pkt. 10c; ¼ oz. 75c.
Star Phlox—(Cuspidata)—Flowers have a distinctive star-like appearance, with white margins, excellent for bouquets. **Pkt. 10c; ¼ oz. 75c.**

POPPIES

POPPY — (Papaver) — Magnificent, showy flowers borne separately on tall stalks in many bright and charming colors. Some are hardy annuals, others are perennials. Sow seeds very early where they are to remain. Barely cover seed with fine soil and press down firmly. Thin to one foot. If cut before fully open blossoms will last several days. For perennial varieties seeds should be planted in small pots and thinned to one plant, as they are difficult to transplant. When pot is full of roots, plant in permanent location in good soil. Height 1 to 3 feet.
Bracteatum (P)—Very showy, red. **Pkt. 10c; ¼ oz. 40c.**
Iceland, or Nudicaule (P)—Bright green, fernlike foliage, formed in tufts from which issue slender stalks about 12 inches high, bearing yellow, white or orange-scarlet flowers in endless profusion and most useful for cutting. **Single. Mixed colors. Pkt. 10c; ¼ oz. 65c.**
Oriental—Hybrida mixed. **Pkt. 10c; ¼ oz. 65c.**
Carnation Flowered Tall Double.
American Flag—White margined scarlet.
Blood Red—Violet Blotch.
Bright Rose.
Finest Mixed. Pkts. 10c; oz. 40c.
King Edward—Single—Large flowers produced with great freedom. Deep scarlet shaded crimson, with large black blotch. Height 2½ feet. **Pkt. 10c; ¼ oz. 25c.**
Glaucum—(Tulip Poppy)—Brilliant scarlet flowers 3 inches across. **Pkt. 10c; oz. 75c.**

Shirley Poppies

Shirley Poppies—Very beautiful satiny flowers of various colors from white through delicate shades of rose, pink and carmine, to the deepest crimson. Fine for cutting and will keep fresh in water for several days if cut before the blooms are fully expanded.
American Legion—Brilliant orange scarlet, yellow anthers. **Pkt. 10c; ¼ oz. 25c.**
Eldorado—Double pink shades, exquisite. **Pkt. 15c; ¼ oz. 40c.**
Elorado Double Mixed. Pkt. 10c; ¼ oz. 25c.
Flesh Pink. Pkt. 10c; ¼ oz. 35c.
Picotee—White cup, scarlet edging. **Pkt. 10c; ¼ oz. 35c.**
Rose Pink—Wild rose pink. **Pkt. 10c; ¼ oz. 35c.**
Salmon Pink. Pkt. 10c; ¼ oz. 35c.
Finest Mixed. Pkt. 10c; oz. 40c.

California Poppy

California Poppy—(Eschscholtzia)—They commence to bloom within a few weeks' time from Spring-sown seed and continue to flower profusely until late in the Autumn, forming nice, bushy plants 1 to 1½ feet high. Colors yellow, red, orange and white. Fine delicate foliage. Sow seeds in Fall or Spring where plants are to remain. Seedlings are difficult to transplant. Thin to 12 inches.
Aurantiaca—Rich orange, true California Poppy. **Pkt. 10c; oz. 35c.**
Carmine King—Deep carmine. **Pkt. 10c; ½ oz. 45c.**
Golden West—Yellow with orange center. **Pkt. 10c; oz. 30c.**
Mikado—Orange crimson. **Pkt. 10c; ½ oz. 40c.**
The Geisha—Inside petals brilliant gold, outside orange-crimson petals fluted. **Pkt. 15c; ¼ oz. 40c.**
Hybrida Mixture—New large flowering type containing large percentage of new colors, including soft pink, scarlet, chrome, copper-red, claret and royal purple. **Pkt. 10c. ½ oz. 50c.**

PYRETHRUM—Very ornamental plants, for both foliage and flowers. Seeds should be sown very early in boxes. Cover very lightly with sifted soil and press down firmly. Transplant to permanent location as soon as large enough to handle. If flowers are allowed to form, foliage will change from yellow to green. Height 1 to 2 feet.
Parthenifolium Aurem, or Golden Feather—Gold leaved, flower white. **Pkt. 10c; ¼ oz. 25c.**

RUDBECKIA (P) — (Golden Glow) — Brilliant orange yellow petals around a large dark center. Useful for borders or as a single group. Sow seeds in a sheltered location and transplant when a few inches high. Height 4 to 6 feet.

Newmanni — Pkt. 15c; ¼ oz. 85c.

Fulgida — Orange yellow. Pkt. 15c; ¼ oz. 65c.

All prices on this page are prepaid.

SALPIGLOSSIS—(Painted Tongue)—Showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals. Sow seeds in boxes indoors or in a hotbed.
Superbissima—Finest mixed. **Pkt. 10c; ¼ oz. 50c.**

SALVIA — (Flowering Sage) — Very ornamental, flowers borne in spikes of fiery red or crimson; and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Excellent for bedding in masses or single planting. Hardy annuals.
Zurich — (New Dwarf Early) — The finest of all Dwarf Salvias. Very floriferous. **Pkt. 15c; ⅛ oz. $1.00.**
Splendens—Brilliant scarlet. Pkt. 15c; ¼ oz. $1.00.
Bonfire—(Clara Bedman)—One of the finest Salvias ever introduced; compact bush about two feet in height and diameter. **Pkt. 15c; ¼ oz. $1.25.**

SAPONARIA OCYMOIDES (P)—Very showy hardy perennial rock plant, producing masses of small bright rose flowers during the summer months. **Pkt. 10c; ½ oz. 45c.**

SCABIOSA — (Sweet Scabious, or Mourning Bride) — Free flowering annuals; white, carmine, lilac, maroon, etc.; effective for garden decoration and valuable for cutting. Sow seeds in open as soon as soil is warm, thinning to 8 to 10 inches. Blooms from early July until frost. Height 2 to 2½ feet.
Double—Mixed. Pkt. 10c; oz. 75c.
Azure Fairy. Pkt. 10c; oz. 75c.
Black Purple. Pkt. 10c; oz. 75c.
Fiery Scarlet. Pkt. 10c; oz. 75c.
Rose. Pkt. 10c; oz. 75c.
Pure White. Pkt. 10c; oz. 75c.

SCHIZANTHUS—(Butterfly Flower)—Beautifully fringed and delicately colored flowers so numerous as to hide the foliage. Splendid bedding plant. Seeds sown in open come into bloom in a few weeks. Fine pot plant for house in Winter. Height 1 to 2 feet.
Rose and Amber Shades. Pkt. 15c; ¼ oz. 95c.
Grandiflora Hybrids Mixed. Pkt. 10c; oz. 65c.

SNAPDRAGONS—See page 43.

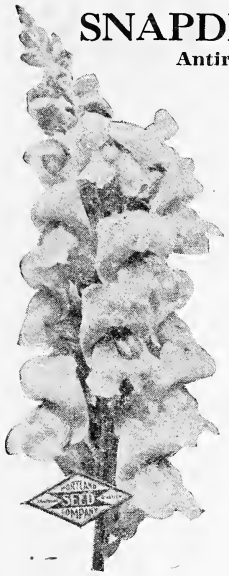
STATICE (P) — (Sea Lavender) — Splendid for border or rockery, producing panicles of minute flowers, can be dried and used for Winter bouquets.
Latifolia—Sow like other perennials in flats or cold frames and transplant when large enough into permanent positions, 12 to 18 inches apart.
Blue—Pkt. 10c; ¼ oz. 35c.

STOCKS—See page 43.

SUNFLOWER—(Helianthus)—Stately growing annuals with immense golden yellow flowers; effective for garden decoration. Height 6 to 8 feet.
Dwarf Double—Bright golden yellow flowers three inches across. **Pkt. 10c; oz. 65c.**
Globosus Fistulosus—Saffron, very large, double and handsome. **Pkt. 10c; oz. 45c.**
Multiflora—Beautiful, double yellow flowers. **Pkt. 10c; oz. 60c.**

SNAPDRAGONS

Antirrhinum



One of the most useful and showy of border plants of almost every color. Also makes splendid cut flowers. They have recently been much improved and are now really magnificent. For best results plant seeds indoors very early, planting out when about 3 inches high. Height 2 to 3 feet.

TALL GIANT FLOWERED

Defiance—Scarlet.
Golden King—Giant yellow.
Queen Victoria—Pure white.
Pkt. 10c; ¼ oz. 25c
Rose Queen—Soft pink.
Pkt. 10c; ¼ oz. 30c
All Varieties Mixed—
Pkt. 10c; ½ oz. 40c

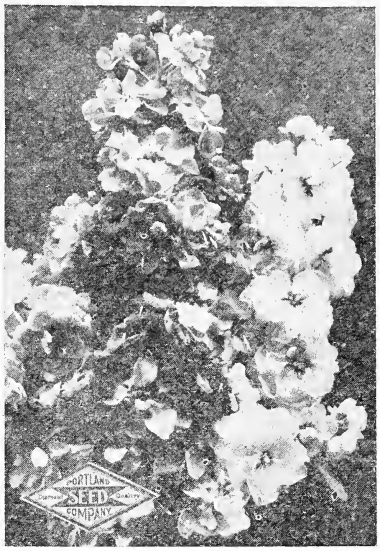
MEDIUM TALL VARIETIES

Queen of the North—White.
Pkt. 10c; ¼ oz. 30c
Bonfire—Buff shaded scarlet.
Rose Dore—Rose suffused orange.
Golden Queen—Giant yellow.
Pkt. 10c; ¼ oz. 35c
Grenadier—Large orange scarlet.
Pkt. 15c; ¼ oz. 50c
Silver Pink—Large pearly pink.
Pkt. 15c; ¼ oz. 50c
Mixed Varieties Pkt. 10c; ¼ oz. 25c.

SWEET ROCKET (P)—(Hesperis)—An old hardy garden favorite. Fragrant white flowers, 2 to 3 feet high, resembling Perennial Phlox. Sow early and transplant. **Pkt. 10c; ¼ oz. 20c.**

SWEET SULTAN—(See Centaurea).

THUNBERGIA—(Black Eyed Susan)—rapid-growing annual climbers; splendid for trailing over trellises, fences, etc.; buff, white, orange, etc., four to six feet high. Grows readily from seed sown in the open. **Mixed Colors. Pkt. 10c; ¼ oz. 45c.**



STOCKS—These popular flowers are easily grown, and are so highly fragrant and of such beauty they deserve a place in every garden. Should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about 2 inches.

Imperial Large Flowering Ten Weeks.
Blood Red. Pkt. 15c; ⅛ oz. 75c.
Canary Yellow. Pkt. 15c; ⅛ oz. 75c.
Chamois—Ivory tinted old rose. **Pkt. 15c; ⅛ oz. 75c.**
Dark Blue. Pkt. 15c; ⅛ oz. 75c.
Flesh Pink. Pkt. 15c; ⅛ oz. 75c.
Lavender. Pkt. 15c; ⅛ oz. 75c.
Rose. Pkt. 15c; ⅛ oz. 75c.
White. Pkt. 15c; ⅛ oz. 75c.
Choice Mixed. Pkt. 10c; ⅛ oz. 65c.

Dresden Perpetual or Branching—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late Autumn. Very fragrant.

Princess Alice—White.
La France—Blush pink.
Brilliant—Blood red.
Sapphire—Violet.
Creole—Canary yellow.
Mary Queen—Pale blue.
Rose Pink.
} **Each Pkt. 15c ¼ oz. 75c**

Virginian Stock—A fine, early flowering plant. Hardy annual. Mixed. **Pkt. 10c; ¼ oz. 15c.**

Evening Scented Stock—(Matthiola Bicornis)—Old-fashioned annual which has no beauty to recommend it, but well worth growing for its entrancing fragrance each evening. **Pkt. 10c; oz. 60c.**

SWEET WILLIAM

SWEET WILLIAM (B) — (Dianthus Barbatus)—Remarkable free-flowering plant of brilliant colors, ranging from snow-white to darkest crimson and purple, and emitting a very delicate and refreshing fragrance. May be sown in open and thinned to 6 to 8 inches. Height 1 to 1½ feet.

Coppery Red—Single.
Dunnetti—Dark crimson, single.
Pink Beauty—Pink, single.
Scarlet Beauty—Single.
Pure White—Double.
Double Mixed. Pkt. 10c; ¼ oz. 75c.
Single Mixed—Very beautiful **Pkt. 10c; ½ oz. 60c.**

TRITOMA (P)—(Red Hot Poker)—Bright, showy flowers produced in large spikes of brilliant rich colors. Although hardy, requires some protection through the Winter. Will bloom first season from seeds sown indoors very early and planted out as soon as soil is warm. Cut flowers keep a long time. Height 2 to 3 feet.
Uvaria—Dazzling orange red. **Pkt. 15c; ¼ oz. 75c.**

VALERIANA (P)—(Garden Heliotrope)—Sweet scented flowers having red or white blooms produced in large heads. Fine border plants, 2 to 3 feet high. Sow early in boxes and transplant to permanent location as soon as large enough to handle. Should have rich soil.
Red. Pkt. 10c; ¼ oz. 35c.

VERBENA—Start seed in the house or under glass early in Spring and transplant after 3 to 4 inches of growth. They flower in July and until frost. Height 8 to 12 inches.
Mammoth Mixed—Selected; extra large, fine. **Pkt. 10c; ¼ oz. 50c.**
Fine Mixed. Pkt. 10c; ¼ oz. 40c.
Scarlet Defiance. Pkt. 10c; ¼ oz. 50c.
Pink Shades. Pkt. 10c; ¼ oz. 50c.
Blue Shades. Pkt. 10c; ¼ oz. 50c.
Candidissima—White. **Pkt. 10c; ¼ oz. 50c.**

VINCA (P)—(Old Maid)—Tender perennial. Fine for pot culture. Flowers white and pink.
Mixed. Pkt. 10c; ¼ oz. 50c.

WALL FLOWER (B)—(Cheiranthus Cheri)—Spikes of beautiful, exceedingly fragrant flowers. Colors yellow, red, orange and brown. Half hardy perennials. Sow in open, transplant to permanent location late in Summer. Should bloom second season. Height 1 to 1½ feet.
Single, Mixed—Large flowering. **Pkt. 10c; ¼ oz. 25c.**
Finest Tall Double Mixed—Branching. **Pkt. 15c; ⅛ oz. 75c.**

ZINNIAS

NEW DAHLIA FLOWERED—The plants of this new race are very sturdy and produce many flowers with stout stems. The flowers in full bloom often measure four inches in depth and six inches in diameter. Easily grown from seed sown in the open.

EXQUISITE—Light rose with center a deep rose.
GOLDEN STATE—Rich orange yellow. Yellow in bud, turning to orange when in full bloom.
CRIMSON MONARCH—Largest and best of reds.
DREAM—A fine, deep lavender, turning to purple (mallow purple).
OLD ROSE—Real old rose, for charm and beauty ranks next to **Exquisite.**
SCARLET FLAME—A beautiful bright scarlet, with a blending of orange throughout the petal.
ORIOLE—Considered the most beautiful of its class. Immense orange and gold bicolor, changing slightly as it ages.
METEOR—A rich glowing deep red, the darkest of all the red shades, fine form. Very large and greater bloomer than other reds.
BUTTERCUP—An immense deep creamy yellow. Very desirable and should be included in every collection.

Separate Colors above named varieties—Pkt. 20c; ⅛ oz. 85c.
Mixed—All colors. Dahlia flowered. **Pkt. 15c; ½ oz. $2.00.**

GRANDIFLORA ROBUSTA ZINNIAS—Double giants. A special strain, producing mostly double flowers of immense size. **Plants** are of extremely robust growth, attaining a height of about 3 feet.
Apricot Yellow, Deep Flesh, Golden Yellow, Rose King, Salmon, Shrimp Pink, White and mixed—Pkt. 10c; oz. $1.35.
DWARF DOUBLE MIXED—Pkt. 10c; ¼ oz. 30c.
PICOTEE TYPE—All colors mixed—Pkt. 10c; ¼ oz. 25c.
VICTORY QUILLED—All colors mixed—Pkt. 10c; ¼ oz. 25c.

"MARY PICKFORD"
The Latest Thing in Sweet Peas, Crowned Queen at the American Seed Trade Convention in Los Angeles Last June.

SWEET PEAS

"DIAMOND QUALITY"

Our famous "Diamond Quality" Sweet Peas are selected with critical care and we offer the best productions of the foremost growers. Although we list only those we consider best, we can supply any variety in commerce, and special orders will receive careful attention.

CULTURE—First and most important, plant as early in the Spring as the conditions will permit. Seeds should be sown at the rate of one ounce to 15 feet. Make a trench about 3 to 4 inches deep, planting the seeds in the bottom about 3 inches deep, pressing the soil down firmly. After the plants are well up, thin to 4 or 5 inches apart, and draw the soil around them until the trench is filled above the level. This gives a depth to the roots, preserving the moisture. Keep the ground well worked and water if needed, an occasional thorough soaking being better than a daily sprinkling. Keep the flowers cut close and a pruning of the tips of the vines will also aid in prolonging the season of bloom and insuring better flowers.

MARY PICKFORD—The Sweet Pea named for Mary Pickford, who has for years been called "America's Sweetheart," almost equals the little lady herself in both grace and beauty, and it will be difficult to describe all the points of beauty of this variety. We can only wish it had been possible for all lovers of Sweet Peas to have been with the seedsmen of the United States and Canada at Hollywood last June when Mary Pickford was presented with a basket of flowers of the extremely beautiful variety named for her. **The Mary Pickford** is a sturdy grower, producing an abundance of four-flowered sprays on long, stout stems. It is a beautiful light and dainty cream pink, with just the faintest suffusion of salmon, making the color combination difficult to equal and most hard to surpass. **Mary Pickford** flowers are perfectly formed, with both standards and wings decidedly waved, and the keel blends nicely with the coloring of the entire flower. The individual flowers are most gracefully placed. In sealed packets only, containing 12 seeds each at **25 cents per packet.**

NEW AND UP-TO-DATE VARIETIES

An Exceedingly Well Balanced Collection of SUPERB SPENCERS

MISS CALIFORNIA—A most beautiful and outstanding orange-salmon, cream-pink Sweet Pea, which won an award of merit at the British National Sweet Pea Society 1924. The beautiful coloring of the flower and blending of shades is perfect and wonderful. The flowers are large, beautifully waved and borne in fours on long stout stems. The plant is an exceptionally vigorous grower and cannot but give satisfaction to everyone. **Pkt. 20c; oz. 75c.**

CAMPFIRE—The brightest scarlet sunproof Sweet Pea ever offered. It is the last word in vivid color, and stands out besides all other varieties in this class. The flowers will stand the hottest sunshine, in fact, the brighter the sun the better the color. Flowers are of fine size and borne in profusion on plants of great vigor. It is a variety which can be highly recommended for garden decoration and cut-flower use as well. Be sure to try this splendid Sweet Pea. **Pkt. 20c; oz. 75c.**

CRIMSON KING—So distinct from other varieties in the Crimson class that even the passing visitor quickly and easily picks it out as the best and most attractive. It is of extremely strong growth, and produces throughout the season an abundance of beautiful, very long-stemmed sprays which stand out well from the foliage, and invariably carry more fine four-bloom sprays than three. The color is a solid, rich, deep, clear crimson, becoming richer in the throat. Entirely free from sunburn and wind scald at all times. **Pkt. 15c; oz. 75c.**

LA FRANCE—A most charming and delicate shade of light shrimp pink. The flowers are large and well formed. A strong and vigorous grower, usually carrying four flowers to a stem. **Pkt. 15c; oz. 75c.**

HAWLMARK PINK—A rich glowing deep rose pink flushed salmon with the flowers invariably borne in fours. The large blooms are most beautifully waved and well placed on their long stems, making the bunch effect very rich and appealing. **Pkt. 15c; oz. 75c.**

THE PRESIDENT—Without question the most brilliant in the orange-scarlet class. The flowers are of immense size with good form, and usually borne in fours on strong stems. The color is a brilliant orange-scarlet. **Pkt. 15c; oz. 75c.**

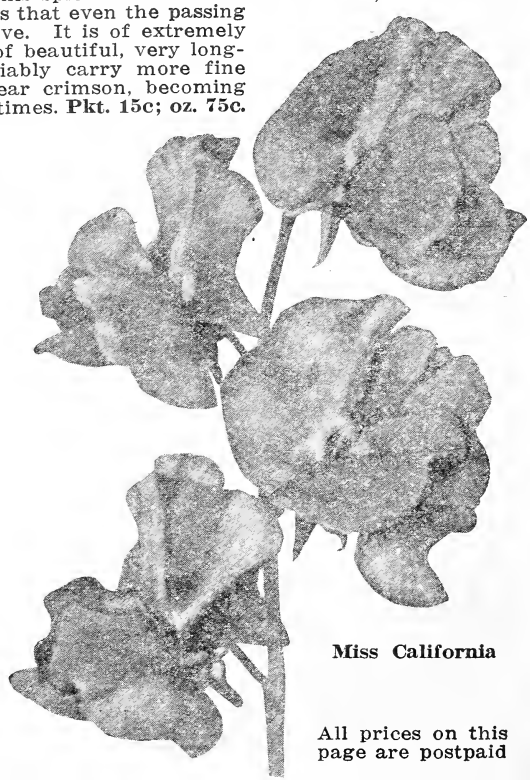
ROYAL PURPLE—A rare new shade, rich purple, almost true royal, a color that does not exist in Grandiflora type. **Pkt. 10c; oz. 50c.**

MRS. TOM JONES—The flowers are very large and of great substance, beautifully waved, and usually borne four on a stem of great length. Color is best described as a bright "delphinium blue," long wanted and now secured in this variety. **Pkt. 15c; oz. 75c.**

HAWLMARK LAVENDER—Considered the best yet in lavenders. The color is a blending of lavender shades. Exquisite form, beautifully waved and crimped, broadly expanded standard and large spreading wings. The plants make a strong, sturdy growth producing attractive four-flowered sprays on long stems. **Pkt. 15c; oz. 75c.**

YOUTH—An exceptionally large, fragrant Sweet Pea. Color white, edged with a delicate, soft rose-pink. The plant is robust in growth, and bears four blossomed sprays in great profusion. **Pkt. 15c; oz. 75c.**

KING WHITE—One of the most magnificent whites of perfect Spencer type. The immense petals are gracefully frilled, and remarkable for the glistening purity of the whiteness and the perfect finish of the flower. **Pkt. 10c; oz. 50c.**



Miss California

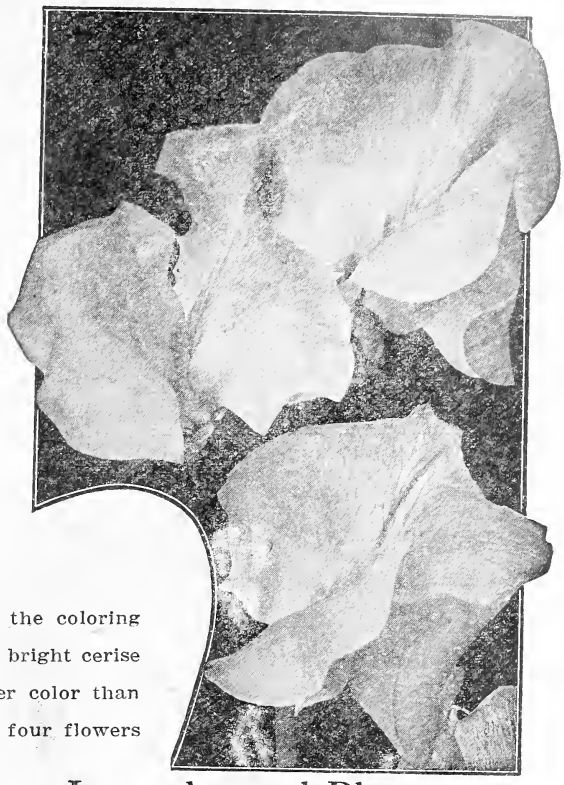
Our Superb Collection of Spencers

One pkt. each of the 12 varieties above including the Mary Pickford; $1.90 value, postpaid..... *$1.50*

All prices on this page are postpaid

STANDARD SPENCER VARIETIES

THE NEW "SPENCER" type has lovely waved fluted flowers of giant size, and in exquisite colorings, length of stem, and lasting qualities are much superior to the older types.



Pink and Cream

COUNTESS SPENCER—(Pink)—The first Sweet Pea of the Spencer type. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused and tinted with soft shell pink, deeper at outer edges. **Pkt. 10c; oz. 50c.**

DOBBIES CREAM—A good primrose, a strong grower and generally four flowers to a stem. **Pkt. 10c; oz. 50c.**

MRS. HUGH DICKSON—One of the most pleasing varieties. Flowers very large and elegantly carried, usually four together on a long, strong stem. The coloring is apricot on a cream ground, shading off rather lighter toward center. **Pkt. 10c; oz. 50c.**

"MARGARET ATLEE"—The most perfect of the Duplex type yet produced. Color is a warm salmon pink suffused over a cream ground. The cream deepens into a bright buff at base of standard and wings. Flowers are of very large size, almost uniformly four on a stem. **Pkt. 10c; oz. 50c.**

PRIMROSE SPENCER—Color true primrose. Very vigorous, free flowering, excels in beauty, length of stem and keeping qualities. **Pkt. 10c; oz. 50c.**

Orange and Salmon

BARBARA—A beautiful shade of orange salmon, the brilliancy of the coloring being enhanced by planting in partial shade. **Pkt. 10c; oz. 50c.**

ILLUMINATOR—A brilliant orange-salmon ground illuminated with bright cerise pink; a rare combination of great beauty. **Pkt. 10c; oz. 50c.**

THOMAS STEVENSON—Brilliant orange scarlet, standard of deeper color than wings; flowers of finest Spencer form. **Pkt. 10c; oz. 50c.**

ROBERT SYDENHAM—A glowing orange salmon; strong grower, four flowers on a stem; the best and largest of this shade. **Pkt. 10c; oz. 50c.**

Red and Maroon

FIERY CROSS—The standard is a scorching fire-red or orange-scarlet, which scintillates and glitters in the bright sunlight with a glowing fire-like sheen that radiates over the entire flower. **Pkt. 10c; oz. 50c.**

KING EDWARD — Bright crimson scarlet, largest size, wavy standard; drooping wings, long stems; one of the finest reds. **Pkt. 10c; oz. 50c.**

KING MANOEL—Large full, wavy blossoms of dark brilliant maroon, bold and attractive. **Pkt. 10c; oz. 50c.**

ROYAL SCOTT—A magnificent red that does not burn. The color is glowing orange-scarlet. **Pkt. 15c; oz. 75c.**

VERMILLION BRILLIANT—An intense pure scarlet self-color of rare beauty and substance. Absolutely sunproof. A stocky, vigorous grower, profuse bloomer, the long stems carry four perfect flowers. **Pkt. 10c; oz. 50c.**

White

CONSTANCE HINTON — The best black-seeded, white-flowered variety. Flowers are of large size, and come at times with a blush tinge. **Pkt. 10c; oz. 50c.**

ETTA DYKE—White waved variety. **Pkt. 10c; oz. 50c.**

WHITE SPENCER—A pure white flower of enormous size, beautifully crinkled and fluted. **Pkt. 10c; oz. 50c.**

Lavender and Blue

ASTA OHN—Lavender, suffused with mauve; of perfect form, largest size, four blossoms on long, strong stems; very vigorous. **Pkt. 10c; oz. 50c.**

BLUE MONARCH—Splendid new dark blue, self-colored, of large size and good substance. **Pkt. 15c; oz. 75c.**

FLORENCE NIGHTINGALE—Immense, bold erect flowers of soft, rich lavender with very delicate suffusion of rose; a self-colored flower, frilled and waved; four blossoms on extra long stems. **Pkt. 10c; oz. 50c.**

ORCHID—A pleasing and impressive shade of lavender with just sufficient pink to give it warmth and softness. An exceedingly fine bloomer. **Pkt. 10c; oz. 50c.**

WEDGEWOOD—A beautiful Wedgewood blue; is large, vigorous, blooms freely and is entirely free from purple shading. **Pkt. 10c; oz. 50c.**

Variegated

SENATOR—A combination of deep claret and chocolate, striped and flaked on a light heliotrope ground. The coloring is brilliant and attractive. **Pkt. 10c; oz. 50c.**

SPECIAL **Standard Spencer Sweet Peas—Six 10c** packets for **50c**, your selection of color. Twelve 10c pkts. for **$1.00.**

Superb Mixed

(True Spencers Only)—A splendid mixture, carefully proportioned to produce harmonious combinations of color. **Not seedlings, but carefully selected named varieties that retain all the purity and brilliance of color. Pkt. 10c; oz. 30c; ¼ lb. 95c; lb. $2.75.**

Grandiflora

Old-time favorites. Our mixture is made up of select named varieties. **Pkt. 10c; oz. 20c; ¼ lb. 50c.**

Diamond Mixture

The most perfect blend of the finest named varieties it is possible to produce. This mixture contains many famous novelties, the best of Grandifloras, also standard Spencer types, and will delight the most critical. **Sold in 1 oz. sealed pkts. only at 15c each.**

EARLY FLOWERING SPENCER SWEET PEAS

Six weeks earlier than the Spencers, these new early-flowering varieties begin to bloom 106 days from planting in the open ground and flower through a long season—about four months.

AVIATOR—Dazzling crimson scarlet. **Pkt. 15c; oz. 75c.**

BLUE BIRD—Magnificent violet blue. Profuse and continuous bloomer. **Pkt. 15c; oz. 75c.**

CANARY BIRD—Splendid cream or primrose colored self. Flowers of great size and beautifully waved. **Pkt. 15c; oz. 75c.**

COLUMBIA—Without doubt the best and most productive pink and white. (Early Blanch Ferry.) **Pkt. 15c; oz. 75c.**

GLITTERS—A strong and vigorous grower. Profuse and continuous bloomer. Standard bright fiery orange, wings deep orange. **Pkt. 15.; ozc 75c.**

HARMONY—A splendid variety, rich true deep lavender throughout. Flowers of large size, beautifully waved. **Pkt. 15c; oz. 75c.**

HELEN LEWIS—Orange salmon. **Pkt. 15c; oz. 75c.**

HERCULES—Giant pink. **Pkt. 15c; oz. 75c.**

IMPROVED SNOWSTORM—A vigorous grower, the immense flowers are invariable borne in fours on very long stems. **Pkt. 15c; oz. 75c.**

MAROON PRINCE—Deep rich glowing reddish maroon, really a unique color. Flowers beautifully waved and of large size. A strong grower and profuse bloomer. **Pkt. 15c; oz. 75c.**

ROSE QUEEN—Pleasing shade of fine rose pink. Flowers borne on long stems, of great size and much waved. **Pkt. 15c; oz. 75c.**

YARRAWA—The flowers average two and one-half inches in diameter; many are duplex or double. The color is a bright rose-pink with a clear, creamy base. **Pkt. 15c; oz. 75c.**

COLLECTION OF EARLY-FLOWERING—Eight 15-cent packets for $1.00, your selection of colors.

CHRISTMAS FLOWERING GRANDIFLORA TYPE—Pink, lavender and white. **Pkt. 10c; oz. 25c.**

ALL PRICES ON THIS PAGE ARE POSTPAID.

P. S. CO.'S Shakesperian Floral Collection

Why Not Enjoy a Shakesperian Flower Garden This Summer?

We Offer the Collection Complete

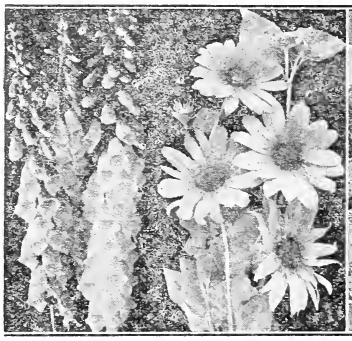
$1.65 POSTPAID

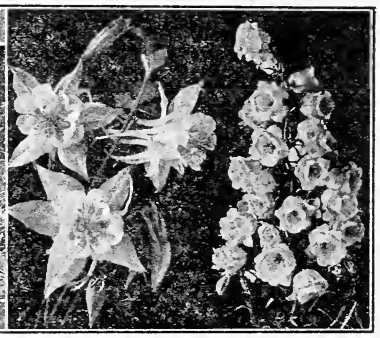
After giving the matter careful study, we find the charm of the great poet's flower-scenery consists not in the abundance of varieties mentioned, but in the touches bestowed on a few, especially when those few belong to the ranks of the "common."

One of the most trustworthy tests, perhaps the final test of the great poet is that he makes the old-fashioned seem new, and the unimportant rare and golden.

Some few of the flowers mentioned in his works such as Crown Imperial, Lady-Smock, Long Purple, Mandrake, etc., have been difficult to identify or impracticable to procure. Nevertheless, we have worked out a collection of fifteen items which will make a splendid showing, and, we believe, be as complete as it is possible to obtain. These are the Aconitum or Monks Hood, Bachelor Button, Carnation, Columbine, Cowslip, Crow-flower, Daisy, Hare-Bell, Mallow, Marigold, Oxlip, Pansy, Pink, Poppy and Primrose. Purchased separately these would cost $2.25. **We offer the collection complete for $1.65 postpaid.**

The Violet also can be had in plants at $2.00 per dozen





FLOWER SEEDS—GREENHOUSE CULTURE

ASPARAGUS SPRENGERI—(Emerald Feather)—One of the best of the new so-called ferns. Feathered foliage; useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting. Seeds should be sown under glass with night temperature of about 65 degrees. Will germinate in 4 to 6 weeks. Height 2 to 4 feet. **(For plants see plant department.) Pkt. 10c; ¼ oz. 75c.**

ASPARAGUS PLUMOSUS—(Asparagus Fern)—One of the prettiest house plants. The leaves are bright green, gracefully arched, surpassing Maidenhair Ferns in grace, delicacy of texture and richness of color. Culture same as Sprengeri. Height 6 to 12 feet. **(For plants see plant department.) Pkt. 25c; ⅛ oz. 95c.**

BEGONIA—Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. They are, however, difficult to grow from seeds even in a greenhouse. Generally propagated by cuttings. **(See plant department.)**
Gracilis, Fine Mixed. Pkt. 25c.

CALCEOLARIA—Beautiful flowers of unique form and colors, ranging from red, yellow, brown and orange. Fine for pot culture. Should be sown in flats very thinly, covered lightly with sifted soil firmly pressed down. As soon as large enough to handle, transplant to thumb pots, shifting from size to size as they become potbound. Of little value outdoors, as the hot sun ruins the blooms.
Hybrida—Finest mixed. **Pkt. 50c.**

CANNA — (Indian Shot) — Large, ornamental, tropical-looking plants of easy culture. Soak seeds in warm water for several hours, or until they commence to swell, then plant under glass. When second leaf appears transplant into pots and keep under glass until soil outside is warm. Colors red and yellow. Height 2 to 6 feet. **(For Canna bulbs see plant department.) Crozy's Best Mixed. Pkt. 10c; oz. 50c.**

COLEUS—Probably the best known and most popular of ornamental foliage plants. Leaves of all shades and colors. Tender perennial. Sow seeds in flats indoors. Transplant seedlings to other flats until settled warm weather, then transplant to open garden. Pot for house culture before frost. Height 1 to 2 feet.
Extra Choice Mixed. Pkt. 25c.

CYCLAMEN—Florists' pot plant. Beautiful winter and spring flowering plants for window and greenhouse.
Gianteum Hybridum—White with carmine eye, dark red, salmon-pink, rose. **Pkt. 25c.**
Papillio Hybridum, or Butterfly Cyclamen. Pkt. 25c.

DRACAENA—Ornamental greenhouse plant. Very desirable. Narrow, dark foliage.
Indivisa Lineata. Pkt. 10c; ¼ oz. 30c.

GREVILLEA ROBUSTA—(Silk Oak)—Very beautiful and graceful plant with fern-like foliage—a splendid pot plant. Sow in boxes in late Winter or early Spring, potting the seedlings when 2 to 3 inches tall. Repot frequently to maintain rapid growth. Height 2 to 4 feet. **Pkt. 15c; ½ oz. 95c.**

HELIOTROPE—Flowers in large clusters of lovely shades of blue. Delightfully fragrant and free-blooming. Splendid for bedding, pot culture or bouquets. Start under glass very early in spring, transplanting to pots or open garden. Will bloom in 2 to 3 months.
Fine Mixed—All colors. **Pkt. 10c; ⅛ oz. 50c.**
Choicest Mixed, from new varieties. Pkt. 15c; ⅛ oz. 75c.

LANTANA—A free-flowering shrubby plant, suitable for out-door or pot culture. The flowers emit an agreeable odor and are of many shades of purple, orange and white. Half-hardy perennial. Sow seeds thinly in boxes indoors, covering very lightly. Transplant to garden when 2 to 3 inches high. Height 1 to 2 feet.
Hybrida Fine Mixed. Pkt. 10c; ¼ oz. 20c.

PRIMULA—(Primrose)—Of the varieties named below some are hardy, early blooming garden plants, others beautiful winter-blooming house plants. Soak seeds in warm water for 24 hours, then sow thinly in shallow boxes of soft sandy soil, covering lightly with sand. Press down firmly and cover with glass until through the surface. When large enough to handle transfer into boxes of fine soil. Remove to permanent location when about 2 inches high.
Polyanthus — Early blooming, dwarf growing plants. Valuable for outdoor bedding. Mixed colors. **Pkt. 25c; 1/16 oz. 75c.**
Vulgaris—Yellow, common, English Primrose. **Pkt. 25c; 1/32 oz. 75c.**

PRIMULA (Obconica Grandiflora)—Beautiful single flowers. This is really an ever-blooming plant, producing elegant clusters of flowers continuously throughout the year. Fine mixed. **Pkt. 25c; 1/64 oz. $2.25.**

SMILAX — (Medeola Asparagoides) — Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of pleasing light green: excellent for decoration. If grown from seeds, should be treated same as Asparagus Sprengeri. (See plants.) **Pkt. 10c; ¼ oz. 20c.**

FAVORITE FLOWERING PLANTS

The following includes many useful and beautiful annual plants for Baskets, Porch Boxes, Bedding and House Plants
Add postage on parcel post shipments

ABUTILON ECLIPSE—Handsome variegated foliage; bright pendant flowers of scarlet and gold colors. Fine for vases and baskets. **Each 20c.**

AGERATUM—(Blue Star)—Bedding and border plant growing one foot high. Feathery blue flowers all Summer. **Each 15c; $1.25 per doz.**

CALCEOLARIA—(Shower of Gold)—Pretty clusters of golden yellow flowers all through the season. **Each 20c.**

COLEUS—(Fancy Leaved)—Coleus are the most important of all the fancy leaved bedding plants. They also make very fine pot plants, especially if you have a warm room to winter them in. **Each 15c; 6 fine sorts 75c.**

GENISTA RACEMOSA—(Shower of Gold)—Its pendant shaped flowers literally smother the plant during the Spring months, while at other times its graceful dark green foliage makes a very ornamental plant. Easily grown. **Each 25c; add 10c if postpaid.**

COMMON IVY—Waxy green leaves, strong growing vine for window and porch boxes or for hanging baskets. **Each 15c.**

MESEMBRYANTHEMUN SPECTABILIS—Quilled-shaped, succulent leaves with large single thistle-like cerise pink flowers. Fine for baskets, vases or porch boxes. **Each 15c.**

PETUNIA —(Irvington Beauty)—Single-flowered. A very popular bedding and window-box plant. Covered all season with beautiful light pink flowers veined green and shaded to white in the throat. **Each 20c; 3 for 50c.**

SMILAX—For using as a green with cut flowers. Fine as a window plant. **Ea. 15c.**

VINCA VARIEGATA — Leaves are a glossy green, broadly margined a creamy white. The best of trailing plants for window boxes. **Each 20c; 2 for 35c.**

VERBENA—(New Mammoth)—The Verbena, is next to the Geranium, the most popular of all bedding plants. **Assorted colors. Each 15c; doz. $1.25.**

WANDERING JEW — (Tradescantia) — White and Red Variegated. **Each 15c.**

Popular Annual Bedding Plants

Annual bedding plants are so inexpensive and satisfactory that they should be planted extensively for cut flowers in the home as well as for garden effects. They also make splendid displays in tubs and porch boxes. **We have for early delivery fine large plants that can be set as soon as weather permits and with little care will bloom freely throughout the season. Prices are per dozen, f. o. b. Portland.**

Alyssum	**$0.50**	**Clarkia**	**$0.50**	**Marigold**	**$0.50**	**Salvia**	**$0.50**
Asters	**.50**	**Cosmos**	**.50**	**Mignonette**	**.50**	**Stocks**	**.50**
Carnations	**1.00**	**Geraniums**	**$1 to $3**	**Petunia**	**.75**	**Verbena**	**.50**
Candytuft	**.50**	**Larkspur**	**.50**	**Phlox**	**.50**	**Zinnias**	**.50**
Centaurea	**.50**	**Lobelia**	**.50**	**Salpiglossis**	**.50**		

Plant Annuals in the bulb beds. After the bulbs are through blooming they should be allowed to grow until late Summer, and the beds can be made very attractive with annual flowering plants without disturbing the bulbs. For-get-me-nots, Petunias, Pinks, Poppies, Verbenas and Candytuft are among the best.

MASTODON PANSIES IN BLOOM—From March until June we offer our famous "Mastodon" Pansy plants in full bloom. Put up one dozen in a package. Mailing weight 4 lbs. **Price 60c to $1.00 per package, not prepaid.**

BEDDING LANTANAS

A fine class of Summer blooming bedding plants also known as shrubby Verbenas. They vie with Geraniums and Cannas in their brilliancy of color in the Summer.

Price 15c each; set of 6 sorts 75c

AMEIL—Covered all Summer with umbels of little florets red on the outer edge and orange-yellow in the center.

CRAIGI—Velvety cardinal red center studded with golden yellow. Free blooming and good grower.

COUNTESSE DE BIENCOURT—Rich rose centered primrose yellow. Each floret with golden yellow throat.

IOLANDE — Beautiful umbels of showy flowers in shades of crimson, orange and yellow.

JAUN D'OR—Large umbels of light sulphur yellow flowers changing to a beautiful shade of pink.

RADIATION—Bronzy red with golden yellow center. One of the brightest and best bedding sorts.

Flowering Begonias

20c each; set of 6 sorts, $1.00, postpaid

BERTHA CHATEROCHER—Glossy green foliage, clusters of bright scarlet flowers, nearly all year.

COMPTA—Pointed purplish-green leaves with silvery shadings. Pure white flowers.

ARGENTEA GUTTATA—Erect growing sort, pointed wine-colored leaves, silvery white spots; clusters of pure white flowers on tips of stems.

FOLIOSA—The freeest-flowering Begonia we have. Makes a handsome window plant, with its glossy green leaves and bright pink flowers.

MARJORIE DAW—A strong-growing variety of slender habit, glossy green foliage, large racemes of salmon-pink flowers, drooping gracefully.

METALICA—Fine, erect growing with large dark green leaves of plush-like texture. Panicles of moped flowers are bright red, covered with downy hair, while open flowers are pure white. **25c each.**

REX BEGONIA—Grown for the beauty of foliage. Leaves large, variegated and margined with a silver-metallic gloss. **Choice plants, each 25c.**

New Heliotropes

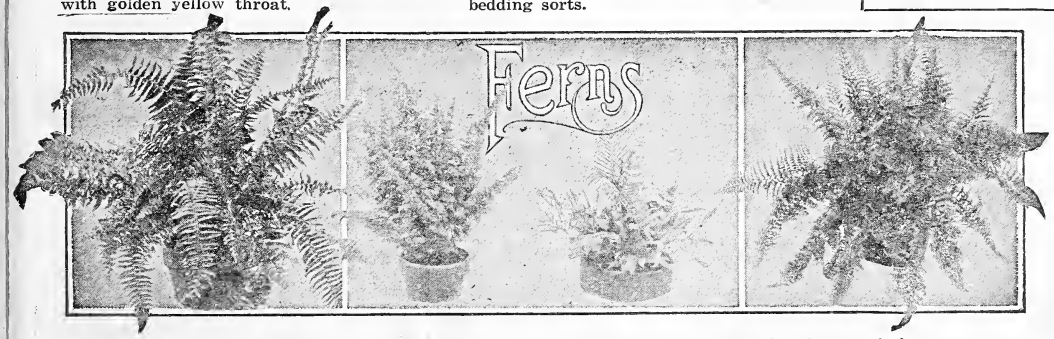
20c each; set of 4, 65c, postpaid

ALBATROSS—Elegant dwarf, bushy growing; large panicles of pure white flowers in great confusion.

HEAVENLY BLUE—Large, close panicles of exquisite light blue flowers, with a white eye.

LAVENDER QUEEN—A beautiful shade of lavender, suffused with rosy mauve. A dwarf robust grower, free continuous bloomer.

ROYAL PURPLE—Color, deep violet purple, with white eye; very floriferous; highly recommended for bedding. **$1.00 per dozen.**



We offer a splendid list of Ferns, including some of the newest as well as the older varieties.

ORNAMENTAL FERNS

Price, small plants, 25c, postpaid. From 4-in. pots, 75c; 5-in., $1.50, postpaid
Specimen plants, $1.50 to $3.00, F. O. B. Portland

BOSTON FERN—This is the original and well known type of "Sword Fern."

TEDDY JUNIOR—New Dwarf Fern. A sport from the Roosevelt Fern. Compact in form, rapid grower.

N. ROOSEVELT—Resembles Boston Fern, produces more fronds; wonderfully decorative window plant.

OSTRICH PLUME FERN—(Nephrolepis Whitmani) Sport from the Boston Fern.

ASPARAGUS FERNS

20c each postpaid; larger plants, 35c and 50c each, by express

SPRENGERI—(Emerald Feather)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. Beautiful sprays of lovely green feathery foliage. It makes a charming ornamental plant for the window or conservatory in Winter.

PLUMOSA—(Japanese Lace Fern)—A finer and more delicate plant than the Sprengeri, but hardy and easily grown. Very satifactory for window and house culture. An extremely graceful window climber, bright green feathery foliage, as fine as finest silk or lace. No finer house plant than this.

Special!

6 Fine Table Ferns *for* $1.25

Adiantum Cunateum — (Maiden Hair Fern—A very beautiful and graceful fern.

Aspidium Tsussimense — Valuable for fern dishes; of graceful habit.

Ptersis Argyrea — (The Silver Fern).

Cyrtomium Falcatum — (The Holly Leaved Fern) — Hardy, dark green foliage.

Pteris Cretica Albo-Lineata—A pretty and useful variegated variety.

PTERIS WILSONI — A very beautiful sort for fern dishes.

PERENNIAL ROCK or ALPINE PLANTS

Owing to the great demand for Alpine and Rock Plants we are listing them separately this season. You will find many new plants and varieties in our list, many of them having cost us much money and trouble to secure. While we try to secure the best seeds and buy only from reliable seedsmen, we cannot guarantee any plants that are propagated from seeds, especially Hybrids. We are propagating a great many of our best plants by cuttings and root divisions and fully guarantee them as to name and color.

All Prices 20c Each, $2.00 Doz., Except as Noted

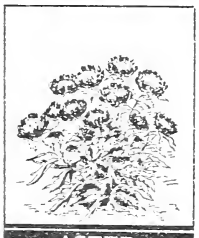
F. O. B. PORTLAND, OREGON, IF MAILED POSTAGE EXTRA

ACHILLEA

AETHIONEMA

ARABIS

ARMERIA


ASTER

ASTILBE

ACHILLEA (Ptmarica)—Suitable for dry sunny places. Flowers fine for cutting. Two ft. **Tomentosa**—Finely cut dark green foliage and numerous flat heads of bright yellow flowers. Exceptionally fine for rock work. 18 to 24 inches.

ADENOPHORA (Liliifolia) — A very pretty genus, closely resembling Campanula. Flowers blue. **Each 25c, doz. $2.50.**

AETHIONEMA (Coridifolium)—Resembles the Iberis in growth, with clusters of rosy lilac flowers in June. One foot. **Ea. 30c, doz. $3.00.**

ALYSSUM SAXATILE COMPACTUM (Gold Dust)—Neat bushes, hoary foliage, large heads of golden yellow flowers April and May. One foot.

ANEMONE (Hupehensis)—A new species from Central China, resembling Anemone Japonica in a miniature way, with pale mauve—colored flowers from early August until late Fall. 18 inches. **Each 25c, doz. $2.50.**

St. Brigid—Irish Anemones in blue, pink, red and white. Come single and double. Can supply in mixture only.

ANTHEMIS (Tinctora Kelwayi) — Handsome finely cut foliage and large golden yellow flowers. Blooms all Summer in the poorest soil. Two feet.

ARABIS ALPINA (Rock Cress)—One of the most desirable of early spring flowering plants. Pure white. April and May.

Flore Pleno—Double. Flowers have a light pink tinge.

ARENARIA BALEARICA—A real gem for carpeting a shady, moist spot. White flowers. **Each 30c, doz. $3.00.**

ARMERIA (Maritima)—Neat tufts of dark green foliage with abundance of rose pink flowers.

Formosa—Taller than above with light pink flowers.

ASTER (Alpinus)—Large bluish-purple flowers, golden-yellow center. May and June. 8 to 10 inches.

Alpinus Goliath — Flowers beautiful lilac, golden center. **Each 25c, doz. $2 50.**

Mauve Cushion—New hardy Japanese Aster. An entirely distinct species. Forms a round cushion-like plant. 2 to 3 feet in diameter, 4 to 6 inches high. Comes into bloom in October, continuing through November, when it is completely covered with mauve-colored flowers.

ASTILBE (Spiraea)—Has been off the market for several years. One of the most beautiful perennial plants with their long plume shaped spikes of pink and white flowers. **Each 50c, doz. $5.00.**

AUBRETIA—Neat tufts of foliage, smothered during Spring and early Summer with gorgeous colored flowers, ranging from blue to lilac rose. Can supply in mixture only.

AURICULA (Alpine Primrose)—Including the most lovely shades. Very free flowering. **Each 25c, doz. $2.50.**

BELLIS PERENNIS (English Daisy) Fire King—Very striking shining crimson flowers with quilled petals and yellow center.

Longfellow Rosea—Large double pink flowers.

Giants of Arnstadt—Giant white flowers, resembling an annual aster in size and form.

CAMPANULA (Carpatica) (Carpathian Harebells)—Compact tufts, flowers rich blue or white. 10 inches.

Rotundifolia (Blue Bells of Scotland)—Slender branching stems, covered with dainty pale blue bell-shaped flowers from June to August. One foot.

Portenschlagiana—Dense tufts of dark green foliage, smothered for months with large light blue flowers. **Each 25c, doz. $2.50.**

CARDIMINE PRATENSIS (Cuckoo Flower)—Close tufts of fern-like foliage with well furnished spikes of rosy-white flowers. **Each 25c, Doz. $2.50.**

CERASTIUM TOMENTOSUM—Neat tufts of silvery foliage, slender sprays of pure white flowers.

CHEIRANTHUS ALLIONII (Alpine Wallflower)—Early spring-flowering wallflower, covered with bright yellow flowers. One foot.

CRUCIANELIA STYLOSA—Tangled masses of elegant foliage, crowded heads of bright rose flowers.

AUBRETIA

BELLIS

CAMPANULA

CERASTIUM

CRUCIANELLA

DELPHINIUM

DELPHINIUM (Chinensis) — Very pretty species with fine feathery foliage and intense gentian blue flowers.

Chinensis Album—A white variety of the above specie. 18 to 20 inches high.

Nudicaule—Grows 18 to 24 inches high and is many stemmed, bearing a profusion of brilliant scarlet flowers. **Each 25c, Doz. $2.50.**

DIANTHUS (Alpine Pink)—This Genus contains some of the most charming of our Alpine plants, most easily cultivated in gritty well-drained soil.

Deltoides (Maiden Pink)—A beautiful little plant with narrow leaves and bearing a profusion of small flowers, deep rose in color, during June and July. 4 to 6 inches. **Each 25c, Doz. $2.50.**

Plumarius (Pheasant-Eye Pink)—Large flat masses of blue-green foliage and bear many fine long-stemmed flowers through a long flowering period. Stand drought well.

Semperflorens Perfection—A splendid strain which produces an infinite variety of shades of red, such as crimson, carmine, pink, rose, salmon and cinnabar, mostly with an eye of deeper hue. Can supply in mixture of colors only. Fragrant. **Each 30c, Doz. $3.00.**

ECHEVERIA (Hen and Chickens)—An excellent plant for the rockery or for edging.

ERIGERON (Aurantiacus)—The showiest of the Genus. Close tufts of dark green foliage with bright golden orange colored flowers. 6 to 10 inches.

ERIOPHYLLUM CAESPITOSUM (Oregon Sunshine) — Tufted herbaceous perennials with finely cut foliage. Flowers yellow. 12 to 18 inches.

ERYSIMUM (Rupestre Aurantiacum) — Dense tufts of bright green foliage, bright orange colored flowers. 6 to 8 in. **Ea. 25c, Doz. $2.50.**

EUPHORBIA CYPARISSIAS — Many short plume-like branches from the crown and adventitious root-buds, covered with spreading dark green leaves. Bright yellow flower-like bracts in May and June.

FRAGARIA INDICA (Indian Strawberry) — Grows rapidly, with runners as much as 5 feet long. It has a small red fruit. Excellent for hanging baskets, walls, rocks, or steep banks.

GENTIANA (Andrewsi)—One of the most fascinating native plants. The flowers which are tightly closed, are borne at the top of a stem 8 to 10 inches long and are an intense blue. Blooms best in moist places. **Each 25c, Doz. $2.50.**

GERARDIA HYBRIDIA—Resembles a Pentstemon in growth and flower, only flowers are smaller and stems more slender. Colors range from pink-lavender to light purple. **Each 30c, Doz. $3.00.**

GEUM (Lady Stratheden)—Rich golden-yellow blossoms. Counterpart of Mrs. Bradshaw. **Each 25c, Doz. $2.50.**

Mrs. Bradshaw—Large double flowers of a fiery red, blooming all Summer.

HELIANTHEMUM MUTABILE (Sunrose or Rock Rose)—Low-growing evergreen shrubs, which during their flowering season, July to September, are covered with a mass of brilliant colored flowers.

HEPATICA—A charming group of spring-flowing plants, remarkable for the way in which they flower. Prefer shade, but will do well in an open position in moist rich soil.

Triloba Coerulea—Blue flowering.

Triloba Alba—White flwr. **Ea. 25c, Doz. $2.50.**

HEUCHERA SANGUINEA (Coral Bells) — They have beautiful heart-shaped leaves, which form a low evergreen clump, 6 to 8 inches high. Coral-red flowers on stems 12 to 15 inches long.

HYPERICUM (Calycinum) — Low-growing, 10 to 12 inches high with yellow flowers. A good ground cover. **Each 25c, Doz. $2.50.**

Moserianum—A beautiful Summer-flowering variety, dwarf, marvelously free-flowering. Flowers are from 2 to 2½ inches in diameter, of a rich golden-yellow conspicuous crimson-tipped anthers. **Each 30c, Doz. $3.00.**

IBERIS GIBRALTARICA—Neat bushes of dark evergreen foliage, smothered with close heads of flowers, ranging from white to pinkish lavender during Spring.

PERENNIAL ROCK or ALPINE PLANTS, *Continued*

All Prices 20c Each, $2.00 Doz., Except as Noted

F. O. B. PORTLAND, OREGON, IF MAILED POSTAGE EXTRA

DIANTHUS

ECHEVERIA

ERYSIUM

GENTIAN

HEPATICA

INCARVELLEA (Brevipes Grandiflora) (Hardy Gloxinia)—Umbels of large crimson-purple flowers conspicuous white markings. **Each 30c, Doz. $3.00.**

INULA (Insifolia)—Compact bushes smothered with golden-yellow flowers on stems 18 to 24 inches long. **Each 25c, Doz. $2.50.**

LEONTOPODIUM (Alpinum) (Swiss Edelweiss) — A well known alpine with pretty white leaves and small yellow flowers which are surrounded by star-like heads of leaves, clothed with a dense white woolly substance. 4 to 6 inches. **Each 40c, Doz. $4.00.**

LINUM (Perenne)—Pale blue flowers borne on graceful stems about 2 feet high.

LYCHNIS (Haageana Hybrids)—Very effective when planted in clumps. Neat bushes smothered with large flowers. The color, with the exception of a few pink and white, is a brilliant crimson. **Each 25c, Doz. $2.50.**

LYSIMACHIA (Nummularia)—A pretty flat growing plant for sheltered places.

MYOSOTIS—Close tufts covered with brilliant blue flowers. Light and dark blue.

NEPETA (Glechoma) (Ground Ivy)—A most dainty and useful Mint. The leaves are crenated and pretty, the stems run on the ground and root, making solid carpets, no better ground cover for shaded bed or bank. **Nuda**—Blue flowering. Very hardy.

OENOTHERA (Fruticosa) (Evening Primrose)—Makes a bush-like growth from 1 to 3 feet high and bearing, for a long time in Summer, a profusion of large lemon-yellow colored flowers.

PAPAVER (Alpinus)—A diminutive species for the rock garden, neat tufts of foliage and dainty flowers in shades of white, rose, yellow, buff, etc. Can supply in mixture of colors only. **Each 25c, Doz. $2.50.**

Nudicaule (Iceland Poppy)—Compact habit, with erect slender stems, bearing large brilliant colored flowers from early Spring until late Summer.

PHLOX (Amoena) — This is one of the best varieties for carpeting the ground, the rockery, or border. Grows but 4 inches high and in the Spring is a sheet of rich bright pink flowers. **Each 25c, Doz. $2.50.**

Canadensis Divaricata—One of the prettiest hardy plants in cultivation. Neat tufted habit, slender stems, terminating with corymbose heads of lovely fragrant lavender-blue flowers. Is an excellent pot plant for conservatory decoration.

Subulata—It is impossible to accurately describe the singular beauty of this charming group. Form close tufts of moss-like foliage, covered during late Spring and early Summer with brilliant colored flowers. White, lilac or pink.

PLATYCODON (Grandiflora) — Large showy deep blue or white flowers on stems 18 to 24 inches.

Grandiflora Flore Pleno—Double flowering. June to October.

PLUMBAGO (Larpentae)—Is of dwarf, spreading habit, growing about 6 to 8 inches high and covered with deep cobalt-blue flowers during late Summer and Fall.

POTENTILLA — Double-flowering Hybrids. Neat low-growing tufts of strawberry-like foliage, with stems from 12 to 18 inches high. **Each 25c, Doz. $2.50.**

PRIMULA VERIS (Hardy Primroses)—Splendid little plants for border or shaded nooks in the rockery. Our strain includes various shades of lilac, purple and violet, as well as a wide range of buff, orange and pink-reds. Can supply in mixture of color only.

PRIMULA BULLEYANA—A striking Chinese species, tall stems, bearing whorls of rich orange-colored flowers. Fond of a damp spot. **Each 50c, Doz. $5.00.**

PRUNELLA (Incisa Rubra) — Close tufts of dark green foliage with stout well furnished spikes of brilliant crimson flowers. Succeeds in any soil not excessively dry and with a little shade. **Each 30c, Doz. $3.00.**

RANUNCULUS (Repens Fl. Pl.) (Double Buttercup)—Masses of double bright golden-yellow flowers in May and June.

SAGINA—Excellent for stepping stones or edging.

SAPONARIA OCEYMOIDES—Brilliant masses of bright rose-colored flowers in Spring.

SAXIFRAGA (Stonebreak)—It is impossible to over-value this extensive genus of rock plants. They can be successfully grown in any sunny position in sandy soil, except those marked **. They require shade and moisture.

Aizoon—Regular rosettes. 6 to 8 inches high. May. White.

Aizoon Flavescens—5 to 6 inches. May. Lemon-yellow.

Aizoon Rosea—5 to 6 inches. May. Rose-pink. **Each 35c, Doz. $3.50.**

Lagaveana — A miniature plant with tiny silvery rosettes and ruddy stems 6 inches high, bearing 4 to 6 flowers on each stem. May. Creamy white.

Lantoscana—Leaves short and blunt. 6 to 8 inches. June. White. **Each 40c, Doz. $4.00.**

Bathoniensis—A rapid grower, 10 to 14 inches high, with stout branching stems bearing large scarlet-crimson flowers.

Macnabiana—Seldom more than a foot high, more or less branched above. Flowers white, numerous, heavily speckled with pink to purple large dots. **Each 30c, Doz. $3.00.**

Doz. $3.00.

SAXIFRAGA (Burseriana)—2 to 4 inches high. Fresh gray-green, turning to light brown as they grow older. Flowers white, the veins often colored, showy.

Elizabethae — Very free-growing, forming cushion-like tufts. Leaves deep green in small rosettes. Flower stems 2 inches high, tinged red, flowers yellow. **Ea. 50c, Doz. $5.00.**

SAXIFRAGA (Megasea Cordifolia)—Handsome broad deep green foliage which alone renders them useful while the pretty rose pink flowers which appear early in the Spring, make them doubly effective.

Pyramidalis—Very robust, 2 to 4 feet high when in flower. The rosettes are large and glaucous and the flowers very numerous in a large panicle, white, speckled with crimson.

Umbrosa (London Pride) * * Leaves form a dense rosette, 6 to 12 inches across. Flowers white, speckled carmine, on stems 12 to 18 inches high. Cannot stand drought.

SCUTELLARIA (Alpina) — A hardy spreading perennial, about 10 inches high, with large blue flowers.

SEDUM—A very interesting group of plants, hardy and easily grown, the larger proportion form tufts, clasping the ground, and for carpeting there is nothing to equal them.

Acre—Stems creeping, branched, about 2 in. long. Flower stems 2 to 3 in. long. Flowers yellow. Thives best in poor soil.

Acre Album—Same as above, but with white flowers.

Kamtschaticum Grandiflora — A compact grower, golden-yellow flowers. 8 inches.

Spurium Coccineum—Dense masses of crimson colored flowers. 6 inches.

Spurium Roseum—Pink-flowering form of preceding Sedum.

Stahli—Foliage tinted crimson in Autumn. 4 to 6 inches.

Telephium—Erect growing, 12 to 18 in. high.

VERONICA PROSTRATA—Carpets of olive-green foliage, smothered with dainty spikes of rich blue flowers.

LEONTOPODIUM

LYCHNIS

MYOSOTIS

PRUNELLA

VERONICA

SEDUM SPECTABILIS—One of the prettiest erect growing Sedums, 18 inches high with broad light green foliage and immense flat heads of showy rose colored flowers. **Each 25c, Doz. $2.50.**

SILENE (Acaulis) (Cushion Pink)—Moss-like tufted perennial, about 2 inches high, with reddish-purple flowers. **Each 40c, Doz. $4.00.**

Asterias-Grandiflora—Grows to a height of from 3 to 4 feet with leaves 4 to 5 inches long. Flowers a carmine color. **Each 25c, Doz. $2.50.**

Schafta—Trailing, 3 to 6 inches high. Flowers carmine. **Each 30c, Doz. $3.00.**

THYMUS (Lanuginosus)—A creeping Thyme with woolly foliage and bright pink flowers.

Serpyllum Coccineum — A creeping Thyme with dark green leaves and bright crimson flowers. **Each 25c, Doz. $2.50.**

SEMPERVIVIUM (House Leek)—Curious and interesting plants, forming rosettes of succulent leaves of varying colors. Good for rockeries, dry banks carpet bedding or walls.

Arachniodeum (Cob-Web or Spider-Web House Leek)—Called so on account of nearly all of the tips of leaves being connected with long soft white hairs. Flowers on stems 3 to 4 inches high of a pinkish or salmon color.

Glaucum—Flowers about 1 inch in diameter on stems 6 to 8 inches high, in a short compact panicle, 2 to 3 inches in diameter. Rose.

Laggeri—Leaves gray-green, red-violet at the tip. Flowers rose. 3 to 4 inches.

Montanum—Flowers mauve-red, on stems 3 to 6 inches high in a very dense panicle 1½ to 2 inches in diameter. **Each 25c, Doz. $2.50.**

TUNICA SAXIFRAGA—A pretty tufted plant with bright pink flowers, all Summer.

VIOLA (Cornuta Hybrids)—

Jersey Gem (New) — Possesses the dwarf habit and continuity of blooming of the true horned Viola (Viola Cornuta) and the vigorous bushy growth and roundish foliage of finest English bedding varieties. Color is a pure, rich violet and flowers are slightly perfumed. **Each 30c, Doz. $3.00.**

G. Wermig—Large blue flowers produced in great numbers during the entire Summer.

VIOLA RIVINIANA—An excellent plant for the rockery, standing the sun and drought. Blooms the entire Summer if given a little water. Flowers on stems 3 to 4 inches long, a light blue. **Each 30c, Doz. $3.00.**

PERENNIAL BORDER AND BEDDING PLANTS

WE offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects, let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

In our list you will find many NEW and RARE perennials; the original plants having been secured from Europe; and all plants propagated from cuttings or root divisions are guaranteed true to name and color. We offer them to you at very moderate prices.

All Priced at 20c Each $2.00 Dozen

Except as noted, F. O. B. Portland, Oregon; if mailed, postage extra.

ACONITUM (Monkshood) (Wilsoni) — Form bushy clumps and are invaluable for planting under trees and in shady places. Large dark blue flowers 4 to 6 feet. September.

ANCHUSA ITALICA (Dropmore)—Stout well-balanced bushes of dark green foliage, smothered with flowers of a brilliant shade of light gentian-blue.

ANEMONE JAPONICA (Alba) — Among the most important hardy plants blooming in August, continuing until frost. Single white.
Rubrum—Single rosy red.
Queen Charlotte—Very large semi-double of La France pink.
Whirlwind—Large double white.

ARTEMISIA LACTIFLORA — Chinese species of exceptional merit, covered with terminal spikes of pretty creamy-white flowers.

AQUILEGIA (Columbine)—Columbines combine as many good points as any group of garden plants with handsome foliage at all seasons and beautiful flowers borne gracefully on long stems. While a light shade and loose, loamy soil are best, they do well in the full sun, and in any soil from light loam to adobe.
Borsch's Hybrids—Blue, white, pink, yellow and lavender combinations, mixture only.
Chrysantha—Long-spurred pale yellow.
Long-Spurred Delicatissima—Rose and yellow.
Glandulosa Vera—Blue and white.
Rose Queen—Rose, white and yellow.
Snow Queen—Dwarf white.
Skinneri—Scarlet and green.

ASCLEPIAS TUBEROSA (Butterfly Silk-Weed)—Very showy native plant about 2 feet high. Flowers brilliant orange-scarlet.

ASTERS (Michaelmas Daisies)—Are among the very best hardy plants known, and for fine masses of soft coloring in the garden they have no superior. They have the merit of making soft masses of any desired height from 2 to 7 feet. The foliage is a soft, pleasing shade of green and makes an excellent filler and foil for other groups. They will do fairly well in any garden soil with moderate watering and either in full sun or very light shade.
Abendroethe (Evening Glow)—Rosy red.
Feltham Blue—Aniline blue, very free.
Glory of Colwall—Large sky-blue.
Maggie Perry—Very large flowers, loosely arranged in large trusses in a shade of mauve.
Novae Angilen (Ryecroft's Pink)—Rose pink.
Novi Belgi (St. Ewwin)—Soft rose pink, free.
Perry's White—Acknowledged to be the best white Aster yet introduced. Flowers pure white 2 inches in diameter, golden center, which turns to crimson when fully developed.
Tataricus—Distinct blush-violet. Very late.

ASTER AMELLUS (King George) (New)—Extra large-flowering, with large trusses of Bluish-violet flowers. 2 feet. May to August. **Each 50c, Doz. $5.00.**
Rudolph Von Goethe (New)—Very free flowering, with large lavender-blue flowers about 2½ inches in diameter. One of the finest Amellus varieties. **Each 50c, Doz. $5.00.**

ASTER (Mesa Grande Speciosa Grandiflora)—A very late flowering species, growing about 30 inches high, and in late October covered with large flowers of a dark purplish-blue color. Very rare. **Ea. 50c, Doz. $5.00.**

BELLIS PERENNIS (Double English Daisy)—
Fire King—Very striking, shining crimson flowers, quilled petals, yellow center.
Longfellow Rosea—Large double pink.
Giants of Anrstadt—Giant white flowers, resembling an annual aster in size and form. **Each 30c, Doz. 3.00.**

BOLTONIA ASTEROIDES—Pure white Aster-like flowers in great profusion. 4 to 6 feet.

BOCCONIA CORDATA (Plume Poppy) — An interesting and beautiful plant, well adapted to planting in the shrubbery, borders or massing for effect. 6 to 8 feet.

BUPHTHALMUM SALICIFOLIUM — Neat bushy habit, yellow flowers, very pretty.

CAMPANULA—These combine a large range of habit and color and are perfectly hardy.
Canterbury Bells—In single and Cup and Saucer (Calycanthema) pink, blue and white.
Latifolia Macrantha — Large purplish-blue flowers. **Each 25c, Doz. 2.50.**
Persicifolia (Peach Bells)—The Peach-leaved Bellflower, in blue or white.
Persicifolia Flore Plena—The double flowering form of this beautiful flower. Guaranteed to be double flowering. **Ea. 30c, Doz. $3.00.**
Pyramidalis (Chimney Bellflower)—The most conspicuous of all Campanula, forming a perfect pyramid, crowded with large salver-like porcelain blue flowers in August.
Pyraversii—A new Hybrid with open bell-shaped flowers of lavender blue with indigo center, borne freely on pyramidal stems about 3 feet high. **Each 40c, Doz. $4.00.**

CATANANCHE (Cupid's Dart) (Coerulea)—used by the ancient Greeks as one of the principal ingredients in their love potions. Lovely blue flower with rich dark center. Very fine for cutting. Two feet high.
Corerulea Bicolor—White flowers, slight suffusion of purple in center. **Ea. 30c, Doz. $3.00.**

CARYOPTERIS MASTACANTHUS NANA (Blue Spirea)—A handsome hardy perennial. Grows about 3 feet high and produces rich lavender-blue flowers the whole length of branches. Valuable for bedding or pot culture, blooming continuously from early September until frost. **Each 75c, Doz. $7.50.**

CENTAURA—Makes a fine display in the border; also fine for cutting.
Dealbata—The best of the Genus Centaura. Large and striking rose-pink flowers borne above handsome foliage. **Each 50c, Doz. $5.00.**
Macrocephala—Large thistle-like golden-yellow flowers.
Montana—Large violet-blue flowers.
Montana Alba—White flowers.

CEPHALARIA ALPINA—Flat heads of sulphur-yellow flowers. 6 feet.

CHEIRANTHUS ALLIONI (Siberian Wallflower)—Dazzling fiery orange flowers on stems about a foot high. Best as a biennial as it frequently blooms itself to death.

CHELONE (Barbata Hybrids) (Shellflower)—Brilliant red slender tubular flowers on tall erect stems, Pentstemon-like in appearance.

COREOPSIS (Golden Star)—Dazzling orange color, borne from early June until late Fall.
Flore Plena—Double-flowering.

DELPHINIUM (Hardy Larkspur)—Are our best blue cut flowers, perfectly hardy and established plants produce a number of spikes giving two or three crops a season.
Belladonna—The freest and most continuous blooming of all. A clear azure blue.
Bellamosum—Habit and growth same as Belladonna but of a deep rich blue.
Formosum—Dark blue, white eye or center.
Gold Medal Hybrids—Seeds selected from the best named varieties.

DELPHINIUM (Excelsior Strain Hybrids)—From the best named varieties in the largest gardens in England. **Each 30c, Doz. $3.00.**
Separate colors—We have a few choice Delphinium in the Hybrid class that we marked as to color and form. They run from light blue and pinkish-lavender to dark blue with purplish cast. **Each 50c, Doz. $5.00.**

DEILYTRA or DICENTRA (Bleeding Heart)—Flowers heart-shaped, in long, drooping racemes of rose-crimson. One of the prettiest of border plants. **Each 75c, Doz. $7.50.**

DIGITALIS (Foxgloves) — Valuable Gloxinea-flowered plants for garden or shrubbery.
Lilacina—Lavender shades.
Shirley Giant—Extra large, in mixture only.

DORONICUM—One of the most effective early Spring-flowering perennials.

DIANTHUS (Caryophyllus Fl. Pl.) (Double Clove-scented Pinks)—A new strain, containing many fine rich colors. Can supply in mixture only. **Each 25c, Doz. $2.50.**
Latifolious Atrococcineus (Everblooming Hybrid Sweet William)—Beautiful Summer bedding variety, producing masses of brilliant crimson flowers all season.

DICTAMNUS FRAXINELLA (Gas Plant or Burning)—The Dictamnus is one of the most satisfactory hardy plants in cultivation. Both on account of its splendid flowers and its rich durable foliage. Grows about 3 feet high and during the early Summer produces its attractive flowers of pink or white. From the flower heads and seed capsules exudes a volatile inflammable oil in hot weather; if a light be applied early on a Summer evening the whole flower heads will be enveloped in a bluish flame and a very pungent odor emitted. **Each 50c, Doz. $5 00.**

ECHINOPS RITRO (Globe Thistle)—Produces large globular heads of rich blue flowers on stems 3 to 4 feet high, which can be dried, remaining attractive for a long time.

ERIGERON SPECIOSUS — Large handsome blue flowers, violet tinted with yellow centers, not unlike a large Michaelmas Daisy. Two feet. June and July.

ERYNGIUM PLANUM (Sea Holly)—Holly-like leaves and thistle-like heads of flowers of a deep blue. Very decorative in the border useful for dry bouquets in Winter. 3 feet.

EUPATORIUM FRASERI (Hardy Ageratum)—Stout leafy stems with flat terminal heads of white flowers.

FUNKIAS—Very handsome and distinctive, both as to flowers and foliage. Will thrive in almost any position. Invaluable for beds, borders, rockwork and marshy ground.
Undulata Variegata — Leaves widely edged and striped white. Flowers blue. **Each 30c, Doz. $3.00.**

GAILLARDIA—One of the showiest hardy plants. Combination coloring of yellow, brown, crimson and orange.
Grandiflora—Mixed colors.
Kermesina Splendens—Rich crimson.

GAILLARDIA (The King)—The best Gaillardia introduced to date. Flowers measure as high as 6 to 7 inches in diameter, on stout stems, 18 to 24 inches long. A vivid crimson center with a wide yellow margin. Plants from root divisions (from plants imported from Holland). **Each 50c, Doz. $5.00. Seedlings, each 25c, Doz. $2.50.**

GAURA LINDENHEIMERI—One of the finest hardy plants, with 18-inch length branches of white and pink orchid-like flowers. Excellent for massing.

GEUM—Invaluable group for the rockery or border, neat habit, flowering for a long period during the Spring and Summer.
Lady Stratheden—Rich golden-yellow, counterpart of Mrs. Bradshaw. **Ea. 25c, Doz. $2.50.**

GYPSOPHILIA PANICULATA — Myriads of small white flowers on hair-like stems, forming a fairy mass, which for cutting is unsurpassed. Will thrive in any kind of soil in a sunny position.
Flora Plena—The double flowering form of Baby-Breath. Charming double rosette-like flowers. Limited stock. All plants guaranteed double-flowering. **Each 50c, Doz. $5.00.**

HELENIUM—Tall growing plants, closely allied to the Sunflower, bearing in late Summer and early Fall great masses of large daisy-like flowers of yellow and orange.
Autumnale Rubrum—Ox-blood red changing to terra-cotta.
Autumnale Superbum—Deep heads of golden-yellow flowers.
Riverton Beauty—Pure lemon-yellow with large disc of purplish black.
Riverton Gem—Old gold, suffused with bright terra-cotta, changing to wallflower-red.

Perennial Border and Bedding Plants—Continued

All Varieties 20c Each; $2.00 Dozen Except as Noted
F. O. B. PORTLAND, OREGON; IF MAILED ADD POSTAGE

HELENIUM—Early flowering varieties:
Hoopesii—The earliest of all Helenium and the only one with pure orange colored flowers. Flowers 3 to 4 in. **Each 25c, Doz. $2.50.**
Biglowii—Follows Helenium Hoopesii in blossoms with large yellow blossoms with black centers. Two feet. **Each 25c, Doz. $2.50.**

HELIANTHUS (Sunflower) — Most effective perennial for planting among shrubbery or in clumps in the lawn.
Maximilliana—Latest of all, blooming profusely in October. 5 to 7 feet.
Multiflorus Fl. Pl.—Double, golden-yellow. Three to 4 feet.
Rigidus Japonicus—Very desirable variety, beginning to bloom in July. Golden-yellow with dark center. Five to 6 feet.
Sparisolius—The best of Summer varieties.

HELIOPSIS—Similar in habit to Helianthus, but commencing to bloom earlier in the season. Of dwarf habit, 3 to 4 feet. Very valuable for cutting.
Pitcheriana—Deep golden-yellow flower, 2 to 3 inches in diameter, very thick texture.
Scabra Gratissima (New)—Large semi-double flower; briliant orange. 3 to 4 ft. **Each 40c.**

HEMEROCALLIS (Yellow Day Lily)—The tall, graceful, grass-like foliage is very handsome and sets off the charming lily-like flowers very effectively. 2 to 3 feet. **Each 30c, Doz. $3.00.**

HESPERIS (Matronalis—Sweet-scented white white and pink flowers. Very fragrant.

HOLLYHOCKS—Double and single flowering sorts in assorted colors.

INCARVILLEA (Delavayi)—Large rich rose, begonia-like flowers, with deep yellow throats, produced all through the summer. 18 to 24 inches. **Each 30c, Doz. $3.00.**

LOBELIA CARDINALIS—Prefer a moist deep loan and a sunny position. Rich, fiery cardinal flowers. August to October. 24 to 30 inches high. **Each 25c, Doz. $2.50.**

LUPINUS (Arboreus-Yellow Boy) — Dense bushes, completely clothed with elegant racemes of rich yellow flowers, as many as 75 flowers having been cut from one bush, during the season.
Arboreus-Snow Queen—Same habit as Yellow Boy but has snow white flowers. 3 to 4 ft.
Polyphyllus—Carmine—A very pretty color.
Lavender Queen—A very pretty lavender tinted with rose.
Moerheimi—Rose and white; semi-dwarf.
Elliott's Sweet-Scented—New strain, sweet scented; great range of colors including pinks, fawn, purple, rose, etc. Mixture only.
Harkness' Hybrids—Wonderful mixture, containing many beautiful art shades of rose, buff, mauve and blue. **Each 30c, Doz. $3.00.**

LUPINUS POLYPHYLLUS-BLUE — The old favorite.
Roseaa—Splendid variety flower of shaded rose.

LYCHNIS CHALCEDONICA (Jerusalem Cross)—Heads of brilliant orange-scarlet. Will thrive in any soil. 2 to 3 feet.

LYTHRUM SALICARIA—A strong growing plant, thriving in any position or soil, producing large spikes of rose colored flowers from July until September.

LUNARIA BIENNIS (Honesty Plant) — A hardy Biennial evergreen recommended for cut flowers in early spring or as dried everlasting flowers, their silvery moon-shaped seed pods presenting a beautiful and rather curious appearance. **Each 25c, Doz. $2.50.**

MONARDA DIDYMA (Cambridge Scarlet)—The best of the various forms of this aromatic plant, stout leafy stems, crowded heads of brilliant scarlet flowers.
Violacea Superba—Crowded heads of violet-purple flowers.

MICHAUXIA CAMPANULOIDES—Grows 4 to 5 feet high and has irregularly toothed bristly-hairy foliage and large curious drooping flowers, white, tinged slightly with purple, wheel-shaped at first, later the parts reflexed. The flower is parted nearly to the base into 8-10 segments, 1-1½ inches long. A very striking plant for the background. Likes a well-enriched soil of light character. **Each 30c, Doz. $3.00.**

PACHYSANDRA TERMINALIS (Japanese Spurge)—A trailing plant 6 to 8 inches high, forming broad mats of bright glossy green foliage and small spikes of greenish-white flowers during May and June. A ground cover that thrives in all shady situations and the only plant that will thrive under pine trees. **Each 30c, Doz. $3.00.**

PENTSTEMON (Barbatus Torreyi)—Spikes of bright scarlet flowers from June till Sept.
Shirley Giant—Gloxinea-like flowers in varieties of color including rose, cherry, crimson, purple, etc. Can supply in mixture only. Needs protection in Winter.

PAPAVER ORIENTALIS—Below we list several of the newer varieties of Poppies.
Mahony—Maroon shaded crimson; the darkest yet introduced. Guaranteed true to name.
Perry's White—The flowers are a fine satiny white with a crimson maroon blotch at base of each petal. Guaranteed true to name.
Rembrandt—Magnificent orange-scarlet; the most gorgeous of all. **Each 30c, Doz. $3.00.**

PAPAVER (Alpinus)—A diminutive species; neat tufts of foliage and dainty flowers in shades of white, yellow, rose and buff. Can supply in mixture. **Each 25c, Doz. $2.50.**
Nudicaule (Improved Sunbeam)—Compact habit, with slender erect stems, bearing large brilliant colored flowers, orange, yellow or white, from early spring until fall.
Orientalis—For brilliant coloring, nothing equals them during their time of flowering, May until July.
Goliath—Rich scarlet.
Mrs. Baker—Rich wine-red.
Lachs Koenigin—Dark salmon-pink.
Princess Victoria Louise—Delicate salmon-pink.

PHLOX DECUSSATA—Perennial Phlox succeed in any soil enriched with manure in spring, and in hot weather an occasional soaking of water. If the first spikes of bloom are removed as soon as over, they will produce a second supply, continuing the display until late in Autumn.
Albion—White with faint analine-red eye.
Champs Elysee—Bright rosy magenta.
Diadem—Pure white.
Eclaireur—Rosy magenta with lighter halo.
Europa—White with distinct crimson eye.
Lavender Queen—Large spikes of purplish-lavender flowers. Will not sunburn.
Mrs. Jenkins—Best late white.
R. P. Struthers—Rosy carmine, claret-red eye.
Selma—Pale rose-mauve with claret eye.
Wm. Robinson—Pale rosy-salmon with purplish eye.
Below we list some of the newer varieties:
Baron Von Dedem—Scarlet, suffused orange.
Beacon—Brilliant cherry-red.
Elizabeth Campbell—Bright salmon pink with lighter shadings. One of the handsomest and most attractive of all Phloxes.
Goliath—Bright cerise with a deeper eye.
Prof. Virchow—Bright carmine overlaid with orange and scarlet.
Prof. Schliemann—Bright lilac-rose. One of the best for late flowering.
Rheinlander—Salmon pink with deep red eye.
Jules Sandeau—Large free-flowering pink.
Miss Lingard (Suffruticosa)—Earliest of all Phlox. Large white flowers with pale pink eye. June, Sept. and Oct. **Ea. 25c, Doz. $2.50.**
Eyelyn—Soft pink, large flowers, perfect form.
Mrs. Milly Von Hoboken—Rich salmon-rose. Flowers extra large and of perfect form.
Mia Ruys—Enormous, much-branched trusses of large, pure white flowers.
Vald Jensen—Beautiful salmon-pink, white eye. One of the newest. **Ea. 40c, Doz. $4.00.**

PINKS—Without the spicy fragrance of the Hardy Garden Pinks the perennial garden is incomplete. Their great fragrance and rich coloring make them great favorites.
Napoleon III—Double crimson. The best of its color. **Each 30c, Doz. $3.00.**
Elsie—Double bright rose, maroon center.
Gertrude—Double deep rose.
White Reserve—An everblooming pure white.
New perpetual-flowering Pinks:
Harold—Large double pure white.
Jean—White with deep violet-crimson center.
Robert—Delicate shade of old rose.

PHYSOSTEGIA (False Dragon Head) — A beautiful midsummer-flowering ,perennial not unlike Heather. Will thrive in any soil.
Alba—White.
Virginica—Bright, but soft pink.

POLEMONIUM COERULEUM—Useful border plants, succeeding best in partial shade. Deep green, finely cut foliage and spikes of showy blue flowers in May and June. 18 to 24 inches.

RUDBECKIA (Purpurea) (Giant Purple Coneflower)—Peculiar reddish-purple flowers with a very large brown cone-shaped center. July to October. 3 feet. **Each 25c, Doz. $2.50.**
Black-eyed Susan—The perennial form of this favorite flower. Deep orange-yellow with dark purple cones on long wiry stems.
Golden Glow—One of the most popular hardy plants, growing 5 to 7 feet high, producing masses of large yellow flowers, shaped like a Cactus Dahlia.
Grandiflora Hybrids—Dark orange-yellow flowers with purplish-black cone.

PYRETHRUM HYBRIDIUM (Painted or Persian Daisy)—Perfectly hardy and invaluable as a cut flower, lasting longer in water than most other flowers. Nothing can surpass the Pyrethrum profusion of flowers throughout the entire summer from May to July. Colors range from white to crimson.

SALVIA (Patens)—A beautiful plant for the border. Flowers are of the darkest blue known. Should not be planted in a position that is flooded in winter. Needs protection from severe weather. **Ea. 15c, Doz. $2.50.**
Azurea Grandiflora—A Rocky Mt. species that grows 3 to 4 feet high, producing masses of sky-blue flowers August and September.
Officinalis (Giant Sage)—Well known herb.

SHASTA DAISY (Alaska)—Immense fluffy white flowers with yellow centers.

SCABIOSA CAUCASICA—A soft and charming shade of lavender; commences to bloom in June, throwing stems 18 to 24 inches high until September.
Alba—The white form of the preceding **Each 30c, Doz. $3.00.**

STACHYS LANATA (Lamb's Ears)—Fine old-fashioned cottage garden plant for edging. Soft silvery foliage. Dwarf.

STATICE LATIFOLIA (Great Sea Lavender)—A valuable plant, either for the border or rockery, with tufts of leathery leaves and immense candelabra-like heads of purplish-blue, minute flowers. These, if cut and dried, last in perfect condition for months.

SWEET WILLIAM—A fine plant which produces masses of bloom, which are lasting and fine for cutting.
Newport Pink—A fine watermelon-pink.
Scarlet Beauty—Rich deep scarlet; deep green foliage.

SOLIDAGO CANADENSIS (Golden Rod) — Spikes of golden-yellow flowers.

TEUCRIUM CHAMAEDRYS—Neat shrubby habit, whorls of rosy-purple flowers. **Each 25c, Doz. $2.50.**

THALICTRUM DIPTEROCARPUM — New Chinese species of great merit, growing 4 to 6 feet high, elegant fern-like foliage, loose panicles of flowers of a charming shade of lilac-mauve, brightened by lemon-yellow stamens and anthers. July to Sept.
Aquilegifolium—Graceful foliage like Columbine and rosy purple flowers May to July.
Aquilegifolium Alba—The white flowering form of the preceding Thalictrum.
Adiantifolium—A beautiful variety with foliage like the Maiden-Hair Fern and minute white or yellow flowers. **Each 30c, Doz. $3.00.**

THYMUS (Thyme) — **Variegated** — Small pale green and yellow leaves; lavender flowers.
Citriodorus Aureus—The golden-yellow form of the well known Lemon Thyme.

TRITOMA (Red Hot Poker)—Early perpetual-Flowering Hybrids—Very free-flowering and fine range of color.
Mirabilis—New everblooming Hybrids that bloom from early May until cut down by frost in late Autumn. From orange-scarlet to canary-yellow. **Each 25c, Doz. $2.50.**

VALERIANA OFFICINALIS (Hardy Garden Heliotrope)—Produces showy heads of rose-tinted white flowers during June and July, with a delicious strong Heliotrope odor.
Coccineum—Showy heads of old rose or pink.
Alba—The white form of the above.

VERBASCUM GIGANTEUM—Foliage silvery white; flowers yellow. 5 to 7 feet.
Phoeniceum—Quite distinct, neat tufts of dark green foliage, slender spikes of brilliant colored flowers, white, rose, purple and other intermediate colors.

VERONICA—A family containing some of the most beautiful subjects for the hardy Garden.
Longifolia Subsessilis—One of the handsomest blue-flowering plants. Hardy and increases in strength and beauty each year. Spikes completely studded with beautiful blue flowers July to September. 24 to 30 in.
Spicata—Dense tufts from which arise erect spikes of bright blue flowers. 18 inches
Spicata Alba—The white flowering form.

VIOLETS—Owing to their fragrance and simplicity of culture, Violets have met with general favor.
Gov. Herrick—Rich deep purple.
Princess of Wales—Rich violet.

WALLFLOWERS—The following are some of the newer introductions from England.
Early Giant—Early flowering variety with brown and yellow flowers.
Eastern Queen—Flowers vary from apricot to cream white.
Blood Red—Of exceeding floriferousness. The flowers are of an attractive dark red color and delightfully fragrant.
Cranford Beauty—Clear golden-yellow.
Golden King—Standard golden-yellow variety.
Purple Queen—A most pleasing contrast to other varieties, being of a purplish hue.
Ruby Gem—Rich ruby color.
Vulcan—Enormous flowers of ruby crimson.

Geraniums

Undoubtedly the most popular bedding plant of the time. Their free rapid growth and continuous blooming qualities keep them in the front rank among the long list of bedding plants. Beds of one color or variety have been very popular of late years, being very effective in all garden efforts, and for Winter flowers inside nothing is more satisfactory. They are of the easiest culture, requiring only to be kept cool and given plenty of air, with an occasional sprinkling of the foliage to clean and freshen it. Keep the roots moist, not too wet, and have good drainage in the pots. No other flower can take their place as bed or border plant, and inside they grow beautifully throughout the year, making cheery house plants.

Our list of varieties include a number of rarely beautiful novelties as well as the very best standard sorts, and prices are so low as to place them within reach of everyone.

Rare Novelties—Single Geraniums

Price 25c Each; Set of 10 Sorts $2.00
Add Postage on Parcel Post Orders

FREDERICK PLESSIS — Large trusses of well rounded florets. Color light scarlet shaded to large, white center, very striking.
HALL CAINE—Immense circular flowers of a rich bright scarlet, very large, heavy trusses.
JEAN LIONETT—Grand trusses on stout, heavy flower stalks. Color, reddish purple, each floret maculated with orange in the center.
LOUIS REAU—Currant red, bordered with crimson, prominent white markings in center. Splendid bedder.
LUCILE HILL—Large trusses of the beautiful ruffled form; perfectly circular florets of largest size; rich salmon shaded with rose.
MARQUIS DE LONQUEIL—Rich geranium red shaded to light carmine with large white center. Large trusses on fine strong stems.
MAXINE KAVOLENSKI — Orange scarlet flowers in large trusses freely produced. Fine bedding variety.
QUEEN OF WHITES—Beautiful free flowering white, as pure as snow. Always in bloom.
ROMILDA VICINI—White ground overlaid with light rosy-salmon with a reticulated effect. Upper petals feathered with crimson.
UNIVERSE—Very large circular florets in umbels of fine size. Color, light bright scarlet with prominent white eye.

Twelve Fine Double Geraniums

Price, 20c each; set of 12 sorts, $2.00
Add postage on parcel post orders.

ABBIE SCHAEFFER—Rich deep crimson maroon in fine large trusses.
ALPHONSE RICARD—Immense trusses of large round flowers of the most vivid scarlet.
C. W. WARD—Rich salmon shaded to orange. Large trusses on strong stalks. Magnificent foliage.
EDMOND BLANC—Large trusses of rich purplish violet flowers borne in greatest freedom.
FLEUR DES JARDINES—Deep scarlet dashed with white at base of petals. Heavy grower, free blooming.
JEAN VIAUD—Soft rose color shaded to white. Immense florets in large trusses. Magnificent variety.
MADAME LANDRY—Distinct salmon pink. Lightly shaded scarlet.
MME. RECAMIER—Snow white; strong vigorous grower; flowers abundantly in large trusses.
MRS. LAWRENCE—Beautiful satiny pink shaded to white.
S. A. NUTT—The best of the rich, dark crimson varieties in trusses.
SCARLET BEDDER—Bright scarlet flowers in large trusses holding color well in the hottest weather. Never out of bloom. Nice dwarf grower with handsome foliage.
THOMAS MEEHAN—Bright vinous-rose color, upper petals heavily marked with orange. A rare new color among Geraniums. Wonderfully free in bloom.

Twelve Fine Single Geraniums

Price, 25c each; set of 12 sorts, $2.00
Add postage on parcel post orders.

ALICE LEMON—Pure white shaded with peach pink in center.
ALBION—Beautiful free flowering snow white variety, Always in bloom.
EMANUEL ARENE—Rich velvety crimson, maculated orange red. Immense trusses. Fine bedder.
EUGENE SUE—Odd shade of russet orange, very distinct.
JAQUERIE—Rich, vivid crimson, immense trusses.
MRS. A. BLANC—Silvery salmon shaded to peach; one of the richest colored sorts.
MADAME MOSNAY—Peculiar shade of carmine-lake, shaded to violet and white. Very distinct; striking.
METEOR—Brilliant crimson maroon. A magnificent bedding variety.
MILDRED RIVAL—Pure rose pink, with conspicuous white blotch on two upper petals.
MRS. E. G. HILL—Very large trusses of single florets; color clear salmon, with a white center.
ROSAMINE — Delicate rose pink, maculated with white, large truss. Free blooming.
TIFFIN—Brilliant scarlet in large trusses, produces freely all season.

Rare Novelties in Double Geraniums

Price, 25c each; set of 10 sorts, $2.00
Add postage on Parcel Post orders

BLANCAFLUER—Fine new double white with flowers of wonderful purity of color. Sturdy growing.
E. H. TREGO—Rich crimson scarlet flowers in grand trusses all Summer long. A grand bedding variety.
ERNEST CHEBROUX—Very large trusses of rich bright cerise colored flowers, each floret with large distinct white eye.
FLEUVE BLANC—Very large double florets in great trusses on heavy foot stalks. Color, white tinted with pearly rose. A wonderful new sort.
LOUIS MAZIEUX—A gorgeous flower of a brilliant vermillion scarlet with prominent white markings in center of the florets.
MADAME TURIN—Plant vigorous, free blooming with very large trusses of wide florets; ground color pure white, rosy salmon center.
ORNELLA—Bright scarlet in large heavy trusses. Splendid bedder.
PIERRE COURTOIS—Velvety purple spotted with light violet, a rare color among geraniums.
SATIN ROSE—Light pink, upper petals shaded to white at base.
VIRGINIA—Delicate daybreak-pink shaded dainty-rose with white center.

Ivy Leaved or Trailing Geraniums

These are unexcelled as basket or window-box plants, as well as being useful in bedding, covering the ground quickly with their deep green, ivy-shaped leaves and brilliant colored flowers.

Price, 20c Each; Set of 6 Sorts $1.00

BALLADE—Large double, of a tender lilac color, feathered with crimson.
COLONEL BADEN POWELL—The nearest approach to a pure white variety in this class. Fine large trusses.
CHARLES TURNER—Brilliant pink, approaching scarlet. Upper petals nicely feathered maroon. Large trusses.
GARDEN GLORY—Brilliant scarlet, upper petals veined crimson; rich and attractive.
INCOMPARABLE — Exquisite shade of rosy-carmine, sturdy growing and free blooming.
MADAME THIBAUT—Beautiful shade of soft rose pink, upper petals delicately feathered with crimson maroon; undulated petals, immense trusses, luxuriant foliage.

Pelargoniums (Lady Washington Geraniums)

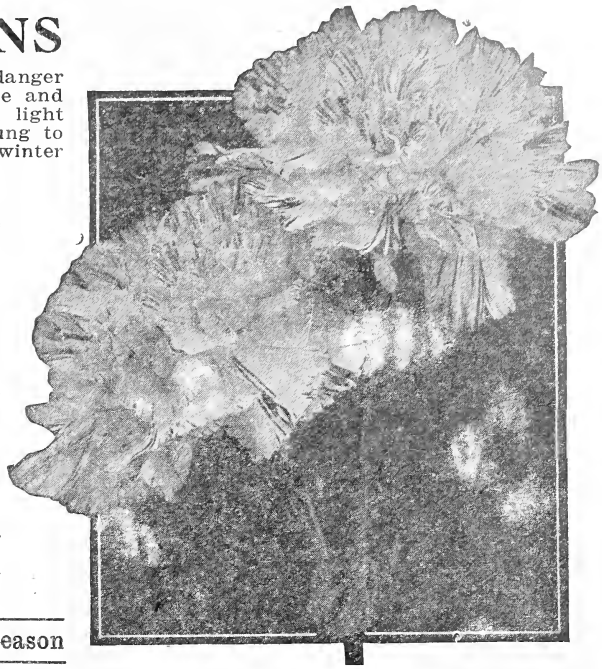
Price, 25c Each; Set of 7 Sorts $1.50

AGATHEA—White flushed with apple-blossoms. Upper petals blotched maroon. Splendid growing habit.
DUCHESS OF PORTLAND—Large round flowers vinous cerise shaded to vermillion. Upper petals darkly blotched and veined.
EASTER GREETING—Remarkable for its free blooming proclivities, equally as fine bedder or as a pot plant. The flowers a fiery amaranth red, petals blotched maroon.
FAIR MAID—Lower petals white flushed light pink; upper petals blackish maroon surrounded with crimson and bordered white.
LAVENDER QUEEN—Clear lavender with two dark blotches on upper petals. Very distinct.
PURPLE PRINCE—Rich bright purple, upper petals blotched maroon. Very free and distinct.
SENSATION—Pure white, each petal heavily blotched with chocolate. A true ever-bloomer. One of the finest.

TEN CHOICE CARNATIONS

Carnations will thrive in any good fresh garden soil. After danger of frost is over, set 10 to 12 inches apart each way, cultivate and water as needed until they begin blooming, then mulch with light manure that has straw in it; plants should be staked or strung to support them. Carnations are easily grown in the house for winter flowers.

Price 20c each; set of 10 sorts, $1.75



ALICE—Large nicely fringed, well formed flowers on stout stems. Colors light pink with silvery shadings. One of the best.
AVIATOR—Flowers very large and massive with finely fringed petals and strong calyx. Stems long and stout; color bright rich scarlet. A true everbloomer.
BELLE WASHBURN—A bright, deep scarlet; soft yet brilliant; the flower is of the largest size and perfectly double.
BONORA—A beauty; fancy variety of fine size and form, borne on long, stout stems. Color white, splashed with red.
ENCHANTRESS—Flowers very large, borne on long stems; a superb shade of flesh pink; early and continuous bloomer.
MATCHLESS—Very large flowers, pure white maculated with apple-blossom. Fine strong growing habit.
MRS. C. W. WARD—Simply superb, both in form and color; brilliant dark pink, of immense size.
POCAHONTAS—Rich crimson-maroon flowers of fine size and build. Rarely beautiful variety.
WHITE WONDER—Snow white flowers, produced on strong wiry stems. Nicely fluted and very fragrant.
WHITE ENCHANTRESS—A pure white from the famous variety Enchantress; same general habit and characteristics.

Field Grown Carnations for Forcing—for Delivery in Season

TWELVE FINEST JAPANESE CHRYSANTHEMUMS

Price, 20c each; set of 12 sorts, $2.00, postpaid

BETSY ROSS—Very large globe shaped flowers with finely incurved petals. Pure white, splendid.
BRONZE QUEEN—Bright golden bronze flowers of reflexed form. Early and free blooming.
CHARLES RASER—Elegant snow-white incurved blooms of fine size and build, on long stout stems clothed with luxuriant foliage.
CHIEFTAIN—Very large, perfectly incurved flowers, beautiful silvery pink.
CHRYSOLORA—In our field trials this variety stood out as the finest yellow in the collections. Large incurved flowers of elegant form.
CITRONELLE—Large incurved lemon yellow flowers of grandest form and texture; a most promising new sort.
EARLY FROST—Pure snowy white flowers, the inner petals incurving and outer ones reflexing into a fine shape.
GOLDEN GLORY—Rich deep yellow flowers of incurved form. Early and free blooming.
UNAKA—A grand new incurved Japanese variety of a beautiful silvery rose color.
VENUS—Delicate rose pink with silvery shadings. Finely incurved flowers. One of the most beautiful pink sorts.
WHITE CHIEFTAIN—Compact incurved flowers of elegant form and nice size; pure white tinged with pearl. A popular cut flower sort with florists.
W. H. WAITE—Immense full flowers of finest incurved form on stout stems. Color rich golden bronze, shaded with terra-cotta. A wonderful piece of coloring.

ENGLISH GARDEN CHRYSANTHEMUMS

To those persons who have planted the late flowering sorts and failed to get them into bloom before frost, these new imported sorts will appeal. All will flower readily in the garden during September and October.

Price, 20 cents each; set of 12 sorts, $2.00.

CAMILLE BERNADINE — Large fluffy flowers of violet and carmine color shaded with white.
CHALDRON—Bronzy red tipped with chamois. Dwarf growing and very free.
CHAMPAGNE — Bright red with golden-yellow reverse. Very brilliant and striking.
CRANFORD WHITE — Snow white flowers in great profusion. Dwarf growing.
GLORY OF SEVEN OAKS — Deep golden yellow, very free-flowering. Excellent dwarf habit. One of the best garden sorts.
GOACHERS CRIMSON—Large handsome flowers of a rich shade of crimson. Blooms very early.
HENRY VINCENT—Rose-pink flushed with silver. Strong healthy-growing and free blooming.
LE PACTOLE—Bright lemon-yellow flowers produced with great freedom. One of the best.
MIGNON—Rosy pink, shaded silvery. Strong vigorous grower and very free.
QUEEN OF WHITES—Snowy white flowers cover the plant early in the Fall. A gem in the garden.
SOURCE DE OR—Tawny red flushed with bronze and chamois. Narrow tubular petals almost like a cactus dahlia.
WOLVERINE — Golden yellow of splendid form and texture. Dwarf growing and very free.

FREE BLOOMING FUCHSIAS

Price 20c each, set of 6 sorts $1.00

ANNIE EARLE—Tube and sepals waxy white; corolla single, clear carmine; splendid free blooming.
GENERAL ROBERTS—Flowers very large, corolla plum color; tube and sepals crimson; one of the finest. Double.
MOLESWORTH—Fine, large and elegant form, sepals long and reflexed, pure red; corolla double white.
MINNESOTA—Single corolla of rich purple color; pure white sepals. Very free.
STORM KING—Superb double white variety well known to all plant lovers.
TRAILING QUEEN—Tube and sepals rosy-scarlet, corolla violet purple, trailing habit, for baskets and boxes.

OREGON LILIES

WASHINGTONIANUM (Mt. Hood Lily)—A beautiful Lily, native of Oregon; flower large of open form, white, tinted with lilac, grows 3 to 5 feet; very fragrant. **Choice bulbs, Each 20c; Doz. $1.75.**

LILIUM REGALE (Myriophylium)—The most vigorous and satisfactory Lily that has ever come under our observation. Perfectly hardy, of medium height, often bearing five to eight large handsome blooms. Fragrant; color white, outer petals shaded in varying amount with pink, the throat suffused primrose-yellow. **Each 50c; Doz. $5.00.**

EASTER SUNDAY
APRIL FOURTH (1926)

JAPAN LILIES

Lilies planted outdoors during the Fall or early Spring flower each year from June to October.

After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our Coast climate being perfectly suited to their requirements and once established, they rival the famous product of Japan.

LILIUM AURATUM (Golden Banded Lily)—The handsomest and best known of the Japan Lilies. Immense ivory-white flowers, thickly studded with yellow and crimson pods; in the center of each petal is a gold band fading at its edges into white; very fragrant. They bloom from June to October. **Large Bulbs, Each 25c; Doz. $2.75.**

AURATUM PLATYPHYLLUM—The flowers are similar in color to Auratum, heavily spotted, but are much larger. **Mammoth bulbs, Each 30c; Doz. $3.25.**

HENRYI—Beautiful orange-yellow flowers with green band, very effective. Hardy. **Each 35c; Doz. $3.50.**

TIGER LILIES

TIGRINUM SPLENDENS (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer. **Large bulbs, each 20c; Dozen $2.00.**

LILY OF THE VALLEY

One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn.

Selected Clumps, for outdoor growing, Each 25c.

LILIUM SPECIOSUM

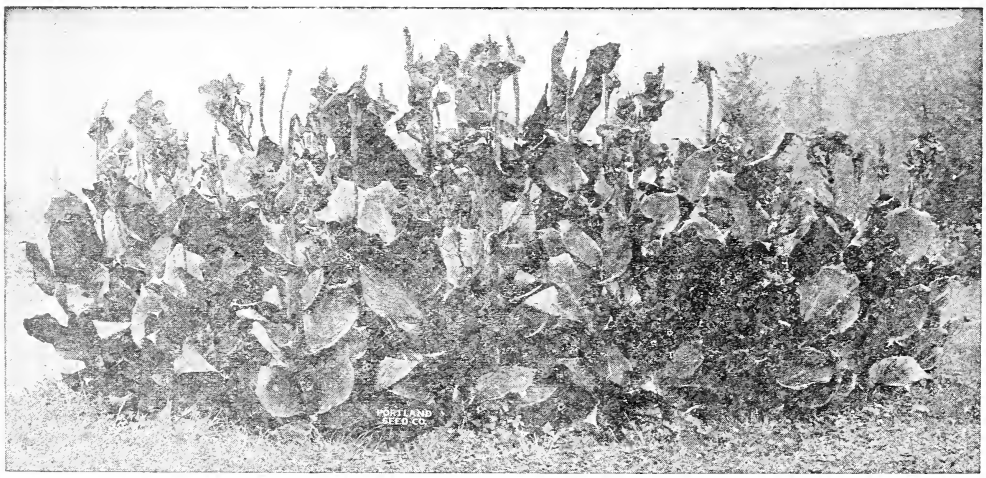
No words can overstate the brilliant beauty of this charming class. One of the most effective and desirable of the Lily family. They are profuse bloomers and last for days after being cut and put in water.

SPECIOSUM ALBUM—Pure white, flowers free. **Large bulbs, each 30c; Doz. $3.00.**

SPECIOSUM MAGNIFICUM—Similar to Melpomene but more vigorous and blooms earlier. **Each 25c; Doz. $2.75.**

SPECIOSUM MELPOMENE—Has deep carmine flowers spotted blood red. **Each 25c; Doz. $2.75.**

SPECIOSUM RUBRUM—White with dark rose spots. **Large bulbs, each 25c; Doz. $2.75.**



CANNAS

CANNAS require a rich, moist soil and should not be planted until all danger of frost is past. They are quick growers and the new flowering sorts bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and the varieties offered are equally valuable for the beauty of their bloom.

Prices, except where noted: Bulbs or plants in season, each, 30c; dozen $3.00, not postpaid.

FIREGIRD—Green-leaved Canna; flowers are fiery, bright red, borne in immense trusses. Height, 4 feet.

CITY OF PORTLAND—A magnificent "Test out" pink with salmon suffusion. Luxuriant green foliage, very vigorous and hardy. **Each 35c; Doz. $3.50.**

LOUISIANA—Grand Orchid—Flowered variety carrying large spikes of orange red flowers throughout the Summer. Best bedding sort.

THE PRESIDENT—Considered the best red-flowered, green-leaved Canna. Flowers are bright glistening scarlet. Height, 4 feet. **Each 35c; Doz. $3.50.**

ROSEA GIGANTEA—Deep rich dark pink shaded to coral; immense spikes of bloom in great freedom. Height, 4 feet.

KING HUMBERT—Mammoth flowers of brilliant orange-scarlet, with bright red markings, broad foliage of rich coppery bronze with brownish green markings; 5 to 6 feet.

ALL PRICES ON THIS PAGE ARE F. O. B. PORTLAND; ADD POSTAGE ON PARCEL POST SHIPMENTS.

IRIS

Iris are of such easy culture and rare beauty that every one should grow them. They make a magnificent display either in clumps or border, blooming profusely, increasing rapidly, and are perfectly hardy in the open ground, preferring a moist situation. Plant Fall or early Spring. Varieties listed below, the best collection to be had in the Northwest.

JAPANESE IRIS (Iris Kaempferi)

Japanese Iris are unsurpassed for their brilliant and varied colorings, producing effects that are truly marvelous. Blossoms early Summer. Plant three inches deep, about 4 inches apart; divide the clumps every two years. Fertilize established beds while dormant, using stable manure, but do not apply after growth starts. Doubles have six petals, singles three.

AZURE—Double. Immense flower exquisitely wavy, mauve, blue with darker halo surrounding the yellow blotch at base of petals. Very large and fine.

AMETHYST—Single. Very large wavy petals, lavender shade.

DATEDOGU—Single. Rich claret red with orange blotches.

GOLD BOUND—Double pure white, enriched by a creamy glow from the gold banded center.

KOKI NO IRO—Double. Purple with yellow throat edged blue.

MT. HOOD — Double. Light blue, shaded darker, orange center.

PINK PROGRESS—Single ash grey lavender, clear blue halo overlaid with a silver sheen.

PYRAMID — Double violet purple, veined white in center of each petal.

SUFO NO KOI—Blotched and speckled blue yellow throat.

TAIHERAKU—Double. Rich purple yellow blotches tipped blue.

PRICES—Strong roots, each 40c; per dozen $4.00, F. O. B. Portland; if mailed, Postage extra.

DOUBLE AND SINGLE MIXED—No named varieties—All colors and shades Each 20c; dozen $2.00; 100 $15.00.

HARDY IRIS

Popularly known as German, Liberty, bearded and Fleur-de-Lis Iris, also Flag Lilies. They are hardy, easily grown, free flowering and drouth-resisting. **Strong Roots, each 25c; Dozen $2.50.**

CAPRICE—Rose, base deep rose red.

DARIUS—Light yellow, lilac margin.

DR. BERNICE—Coppery bronze with crimson edge.

HER MAJESTY — Bright crimson tinged darker.

LIBERTY—Bright azure blue, superior to Pallida Dalmatica. Three to five feet high.

LOHENGRIN—Cattleyea rose, graceful large flower.

LORELEY—Ultra-marine blue, bordered cream.

MADAM CHEREAU — White, with border of clear blue.

MONTEZUMA — Yellow and white veined purple dotted brown.

MONSIGNOR—Rich crimson edged lavender.

NIBELUNGEN—Olive green, base yellow, purple and white.

PERFECTION—S. Light blue. Falls velvety purple black, with conspicuous orange beard.

PRINCESS VICTORIA LOUISE—Pale yellow, base rich violet, edged cream, very attractive.

PURPLE PRINCE—Violet blue, falls dark purple.

SHERWIN WRIGHT—A fine golden yellow sort. As much as 2 ft. high.

WALHALLA—Wine red.

PAEONIES—Double Herbaceous

THE demand for the Paeony increases more each year. Closely rivaling the rose in size, color and fragrance, they make a gorgeous display wherever planted; succeeding in any soil or climate, but thrive best in deep, rich, well drained loam. Paeonies are always free from disease and insects do not bother them. They are hardy, thrifty growers, bloom freely, and nothing will add more to the beauty and attractiveness of the lawn. We are listing this year some of the newest and most beautiful varieties in existence, secured at large expense from the renowned hybridizers of France and England.

PRICES: F. O. B. Portland; if Mailed, Postage Extra

ALBATRE—Ivory white, very double, medium. **Each 90c.**

ADOLPH ROUSSEAU—Very large deep purplish red, almost a clear purple. **Each $1.50.**

CLAIRE DUBOIS — Rich pink, glossy reflex. **Each $1.00.**

CHARLEMAGNE—Creamy white, shaded salmon. **Each 65c.**

DORCHESTER—A good late pink. Solid color. **Each 65c.**

DUCHESS D'ORLEANS — Deep pink, center tinted salmon. Midseason. **Each 50c.**

DUCHESS DE NEMOURS — Sulphur white blooms, cup shaped. Fine for cut flowers. **Each 60c.**

EDULIS SUPERBA — Brilliant pink. Early, generally blooms by Decoration Day. **Each 50c.**

ELEGANTISSIMA — Light cherry pink. Midseason. Good cut flower. **Each 50c.**

EUGENE VERDIER — Light rose, white center. Superb variety. **Each 90c.**

E. G. HILL—Part carmine rose, changing to a beautiful Tyrian rose. **Each $2.00.**

FELIX CROUSSE — A brilliant red Paeony with a ruby center. Very double. Midseason. **Ea. 90c.**

FESTIVA MAXIMA — Pure white with a carmine edged center. Extra. **Each 60c.**

GENERAL DODDS — Very dark rose; even shade. **Each 60c.**

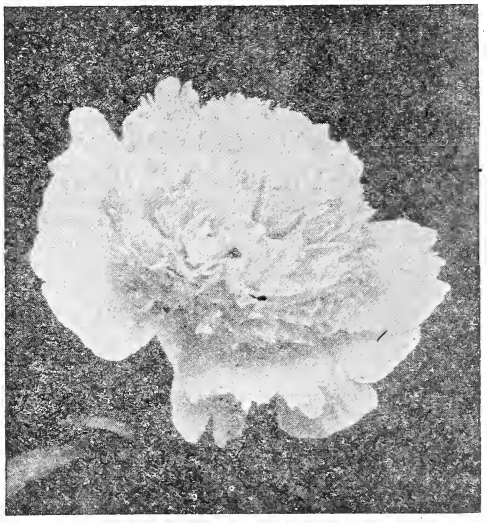
JAMES KELWAY — Fine white, beautifully scented. One of the very finest of all. **Each $1.50.**

KARL ROSENFIELD — A perfect ball of velvety crimson scarlet. **Each $2.50.**

MONS KRELAGE — Bright currant red. **Each 75c.**

OFFICINALIS ALBA—Opens pink, soon changing to white. Earliest of all. **Each 75c.**

OFFICINALIS RUBRA—The old fashioned early red flowering Paeony. **Each 75c.**



QUEEN VICTORIA—White blush tint. Great Decoration Day flowers. **Each 50c.**

SARA BERNHARDT—Flat, compact semi-rose type. Uniform mauve color. Silver tipped. **Each $5.00.**

SWEET VIOLETS

Price, Each 20c; 6 Sorts $1.00, Postpaid

SINGLE

BARONESS ROTHSCHILD—Similar to Princess of Wales, but blooms more freely.

CALIFORNIA—Very showy flowers of enormous size, deep violet blue, deliciously fragrant.

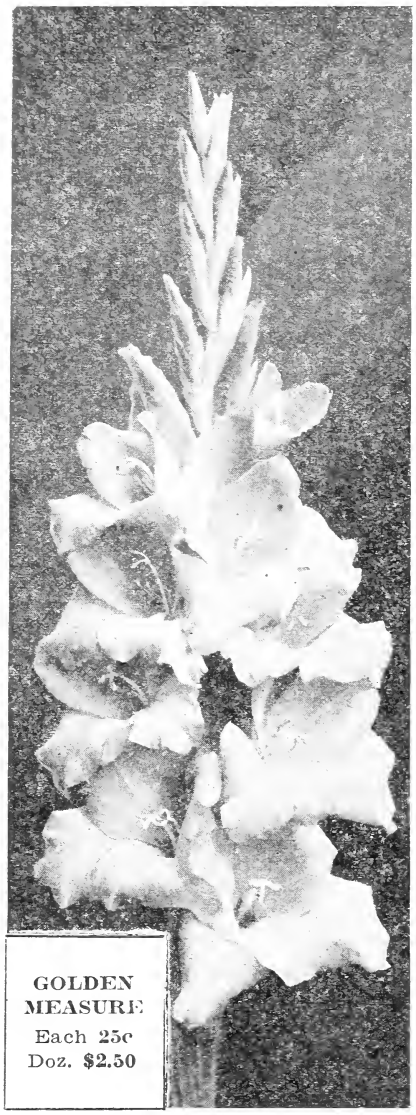
PRINCESS OF WALES—Gigantic flowers, of a very rich shade of blue, extremely fragrant.

DOUBLE

LADY HUME CAMPBELL—Beautiful light blue, very free-blooming, exquisitely fragrant.

MARIE LOUISE—A constant bloomer, producing large flowers, lovely deep violet purple.

SWANLEY WHITE—The finest and best double white violet in cultivation.



GOLDEN MEASURE
Each 25c
Doz. $2.50

GLADIOLI

Exquisite coloring, vigor, ease of cultivation and freedom from insect pests and diseases are making Gladioli universal favorites that should have a place in every garden. They come into bloom at a season when there are few other flowers.

CULTURE—Gladioli may be planted as early as the ground can be worked or as late as June. A sunny situation is preferred. Plant to a depth of 3 to 6 inches, depending on the size of the bulb. Largest bulbs are not always best, as some varieties do not produce large bulbs. Any garden soil will give satisfactory results, but if well enriched, cultivated and freely watered when bulbs first show, Gladioli will amply repay you for this additional care. If cut when the first bud opens and put in water, the flowers will open perfectly, keep for many days, and colorings are richer and more delicate than if left to open on plant.

NEW VARIETIES

CAPTAIN CARTER BAKER—A rich velvety red, with darker center. Large flowers. **Each 25c; doz. $2.50.**

DOROTHY McKIBBIN—A wonderful pink, earliest of all to bloom, should be in every garden. **Each 20c; doz. $2.00.**

ELF — Lemon yellow when in bud, open flowers pure white, lip delicate lemon. Produces grand spikes. **Each 25c; doz. $2.50.**

FLAME—Flame orange, yellow lip, well built spikes. A true flame color —one of the finest Gladioli bulbs ever grown. **Each $1.00; doz. $10.00.**

LORELEI — Canary yellow overlaid with lilac, ruby throat. Exceptionally fine. **Each 25c; doz. $2.50.**

MARJORIE GAGE—Pink with crimson throat. Has won many awards. **Each 20c; doz. $2.00.**

MRS. MARY STEARNS BURKE — Yellow and apricot, a wonderful flower for table decoration. **Each 25c; doz. $2.50.**

ORANGE GLORY—A wonderful orange color with throat shading lighter. **Each 20c; Doz. $2.00.**

POLA NEGRI—Apricot shade with yellow lip, very ruffled and shading into old rose and salmon on the outer edges. A very lovely combination of color and well repays its cost in its unusual beauty. **Each $1.00; doz. $10.00.**

RED AMARILLAS — Mammoth wide open flowers on strong stem-like amarillas. **Each 25c; doz. $2.50.**

ROSS VALLEY—Salmon pink, delicately overlaid with mauve giving a beautiful ashes of roses effect. Red peacock eye. **E. 20c; Dz. $2.00.**

WHITE PIGEON—A most wonderful pure all white. Very large flowers, six to eight open. A strong healthy grower. **Each 75c; doz. $7.50.**

WHITE GLORY — A gorgeous pure white, with beautiful Iris blue throat. As fine as a delicate Iris. **Each 25c; doz. $2.50.**

STANDARD VARIETIES

A. B. KUNDERD—It is one of the very best of the ruffled type; of a charming cream tinted with a delicated pink. A single stalk in a vase is suitable for any setting. It will harmonize well with the color scheme of the finest room. **Each 35c; doz. $3.50.**

ALICE TIPLADY—A large flowered primulinus type. Short and stocky of growth with a most beautiful orange saffron bloom. A unique color and vigorous grower. **Each 10c; doz. $1.00.**

ANNA EBERIUS—This variety created a sensation with growers and amateurs alike. Its coloring, growth and propagating is unexcelled. Dark velvety purple; throat deeper shade; flowers of large size spikes 3 to 4 feet high; fine, long, well-set spikes. **Each 15c; doz. $1.50.**

BYRON L. SMITH—Very choice. Lavender with sulphur blotch in throat. Closely resembles color of a beautiful cattelya orchid. **Each 20c; doz. $2.00.**

CARMEN SYLVA—Very tall, graceful, beautiful perfect pure white. Good grower. **Each 20c; doz. $2.00.**

CRIMSON GLOW—Dark, deep, rich red in color. Gives a vital touch to the garden's color scheme that would be hard to equal. A good stalk and stands well, holding its flowers a long time. **Each 15c; doz. $1.50.**

DOROTHY WHEELER—Large well formed wide open primulinus. Salmon pink tinged in throat with cream. Bright fresh color. Great favorite. **Each 15c; doz. $1.50.**

E. J. SHAYLOR—Truly beautiful. It remains long in bloom, its several side shoots prolonging the season, sometimes for weeks. Each bulb will usually make two very tall erect flower stalks, sometimes three. In color a beautiful soft pure deep rose pink. Many wide open flowers at a time. **Each 15c; doz. $1.50.**

EVELYN KIRTLAND—A tall, slender, graceful stalk with very charming bright coral pink blooms of good style and expression. It does well under good garden conditions and is a most satisfactory flower for house decoration. Better than "pink perfection." **Each 15c; doz. $1.50.**

GOLD DROP—An extra large pure deep yellow primulinus, red line on lower petals. **Each 10c; Doz. $1.00.**

GOLDEN MEASURE—It is perhaps the best of all yellow gladioli. A very tall, vigorous stalk carrying several large, golden flowers open at a time. Stands heat very well and is a most satisfactory flower. No garden is quite complete without it. **Each 25c; doz. $2.50.**

GRETCHEN ZANG—Large bright flesh pink with large deep rosy pink blotch in throat. Late bloomer. **Each 10c; doz. $1.00.**

HALLEY—Salmon pink with creamy white blotch. Large flower and early bloomer. **Each 5c; doz. 50c.**

HERADA—To all who love a pure mauve this will prove a joy. On a graceful stem several wide open blooms of this rare and charming color make a place for itself in any garden. **Each 10c; doz. $1.00.**

LE MARCHAL FOCH—An importation from Holland under special permit of the U. S. Government Department of Agriculture. In color a delicate pink; in size very large. Many flowers open at a time. **Each 10c; doz. $1.00.**

JACK LONDON—Light salmon with brilliant orange flame stripes; golden yellow throat with ruby striped center; flowers 5 inches in diameter, spikes 5 to 6 feet. Each **25c; doz. $2.50.**

LILYWHITE—Nicely formed flower of medium size well arranged on a tall graceful stalk. Nearly pure white with delicate lavender coloring in throat. One of the earliest gladioli. Very vigorous grower. **Each 10c; doz. $1.00.**

MONALISA—Large wide clear toned flower of most refined lilac or light lavender. Self colored and slightly ruffled. A real beauty. **Each 15c; doz. $1.50.**

MRS. FRANCIS KING—Bright red, deeper throat markings, tall slender spike. Great favorite. **Each 5c; doz. 50c.**

MRS. FRANK PENDLETON—On a ground of purest white, a cool, bright, clear, rose pink covers all its wide open petals. The lower petals have a dash of crimson blended in perfect harmony with the delicate pink color scheme. Give fresh water every morning and they bloom for days as finely as in the garden. **Each 10c; doz. $1.00.**

MRS. DR. NORTON—A very choice cream and pink. Winner at flower shows. A tall, erect, straight stem with flowers well placed so that the beauty of each flower stands out in a distinct way all its own. The combination of color in this variety is exceedingly attractive. It is particularly beautiful in artificial light. **Each 15c; doz. $1.50.**

MYRTLE — Very delicate arbutus pink. One of the most beautiful pink glads ever originated. Flower and stalk small but of wonderful beauty. **Each 10c; doz. $1.00.**

PANAMA—A new seedling of America, identical except in color, which is much deeper pink. Spike long and the large flowers are well arranged. **Each 10c; doz. $1.00.**

GLADIOLI—Continued.

PRIDE OF LANCASTER—A brilliant orange salmon. Rich, fiery, deeper orange throat. Tall, large, massive bloom. Plenty open. A beautiful ruffled variety. New. **Each 20c; doz. $2.00.**

PRIMUNELLA — A blend of the Ophelia rose color and a delicate creamy yellow impossible to describe. It is very beautiful. **Each 35c; doz. $3.50.**

PRINCE OF WALES—A clear light salmon in color, very early variety and valuable for house decoration. This is one that we highly recommend. **Each 10c; doz. $1.00.**

PURPLE GLORY—The tallest of all. A splendid presence. Color of the deepest, darkest maroon like the richest velvet. Petals deeply ruffled or fluted. Makes a wonderful showing in the garden, one stalk in bloom attracts instant attention among a multitude of blooms. **Each 35c; doz. $3.50.**

PYTHIA — A very large red, good stalk carrying its massive clear dark flowers, several open at once. A splendid variety and one that is largely grown and well liked. Very showy and satisfactory in every way. **Each 35c; doz. $3.50.**

ROSE GLORY — A strong vigorous grower, a magnificent garden variety, adding grace, beauty and color, with its pure rose pink and deeper pink in throat, to any collection. Its petals have good texture and stand wind and heat well. The edges of all petals are delicately ruffled or fluted, which adds to its charm. **Each 15c; doz. $1.50.**

ROEM VAN KENNEMERLAND—Immense, wide open flowers of rich rose pink, with a cream throat. Grand new sort of greatest merit. **Each 15c; doz. $1.50.**

SALMON BEAUTY—Very large flowered primulinus deep salmon, rich salmon-yellow throat. **Each 10c; doz. $1.00.**

SCARLANO—Bright scarlet with deep dark red blotch in throat. Nicely ruffled. **Each 15c; doz. $1.50.**

SCHWABEN—Large flowers of clear canary yellow with magenta line in throat. Very vigorous grower. **Each 5c; doz. 50c.**

VIRGINIA — Large flame red, solid color. Vigorous grower. Many blooms well arranged on spike at one time. Most popular variety in Southern California. **Each 15c; doz. $1.50.**

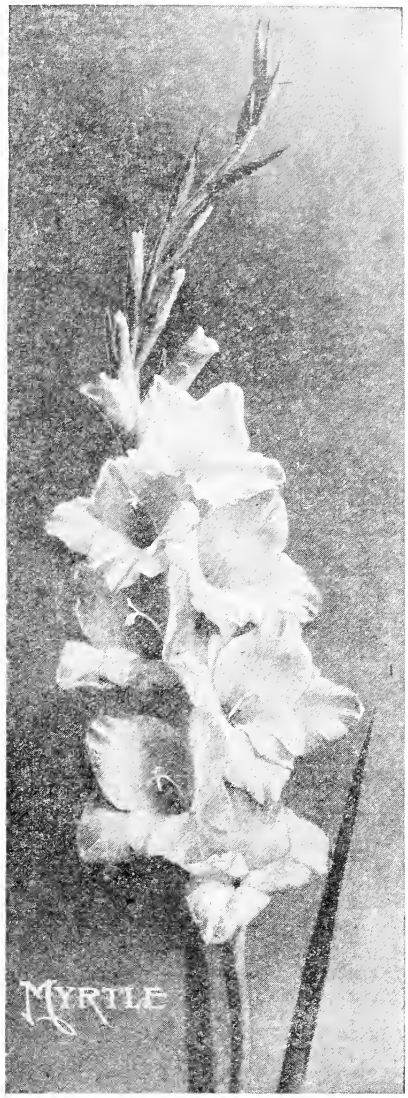
WAR—A deep, rich, velvety crimson self color. Many consider "War" the most striking Gladiolus ever produced. Our stock is extra fine, and everyone should plant them. **Each 15c; doz. $1.50.**

WILBRINK—Wonderfully delicate. A large flower of light lavender pink, with deeper lines in the throat. **Each 5c; doz. 50c.**

WILLIE WIGMAN — Creamy white with red throat, large. **Each 10c; doz. $1.00.**

PRIMULINUS HYBRIDS—A beautiful new race of Gladioli; dainty and graceful flowers in various brilliant shades. **Each 5c; doz. 50c.**

GLADIOLI, FINE MIXED—A large variety of fine flowers unequalled for the price. **Each 5c; doz. 50c; 100 $3.00.**

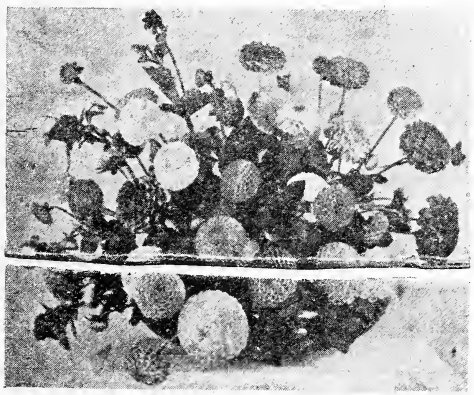


DAHLIA CULTURE

CULTURE—DAHLIAS will grow to perfection in any good garden soil, preferably one that contains a little sand. Plant as soon as frost is gone and ground warm, cutting tuber to a single strong eye, placing it on its side at a depth of about 6 inches, in ground that has been well cultivated. An excellent way to start Dahlias is to sprout tubers in green house and set out the rotted plants. Rows should be 4 feet apart, plants 18 inches to 3 feet apart in the row, depending on whether for a hedge or specimen plants. Cultivate thoroughly until ready to bloom, then deep tillage must cease and only the surface be lightly stirred, as deep cultivation at this time is fatal to blooming. Tall varieties should be staked. If you use commercial fertilizer, do not apply until plant starts growth, then work into top soil, 5 or 6 inches from plant Bone meal is an excellent fertilizer for Dahlias but must be applied early, as it is slow in action. When the plant is well up, say 6 to 10 inches, pinc hoff top, leaving 2 or 3 joints. This will cause it to branch out into a more sturdy, bushy growth. Water freely.

NOTE.—In this locality we recommend planting about the middle of April and shipment of bulbs will be made the latter part of March, that we may be better able to ship only bulbs with good eyes. Do not delay your order for some of those listed are in short supply.

POM PON DAHLIAS



Same as the Show type, except they are of diminutive size, but have longer stems and are great bloomers. They are all ideal for cut flowers as they are very long keepers.

ADRIENNE—Scarlet slightly tipped yellow. **Each 25c.**

ALEX—Light cerise, faintly tipped silver. **Each 25c.**

AMBER QUEEN—Rich clear amber, shaded apricot; free flowering. **Each 25c.**

BELLE OF SPRINGFIELD—The smallest dahlia grown; bright brick red; profuse bloomer. **Each 15c.**

CATHERINE—Bright yellow. **Each 15c.**

DARKEST OF ALL—Dark maroon, almost black. **Each 15c.**

GEO. BRINKMAN—Pure white. **Each 25c.**

GEO. IRELAND—A dainty mauve color. **Each 15c.**

GIRLIE—Pretty rosy mauve; small, neat flowers on long stems. **Each 25c.**

GOLDEN QUEEN—A beautiful bright yellow. **Each 25c.**

KLEIN GRETCHEN—White, heavily flushed with carmine. **Each 25c.**

LITTLE BELLE — Beautiful clear mauve pink. **Each 20c.**

LITTLE JENNIE—Pretty little primrose yellow. **Each 25c.**

MAID OF ALL WORK—Small pure white, long stems, free bloomer, splendid for decoration. **Each 20c.**

ORANGE—New.. Deep orange shade; extra fine stems. **Each 35c.**

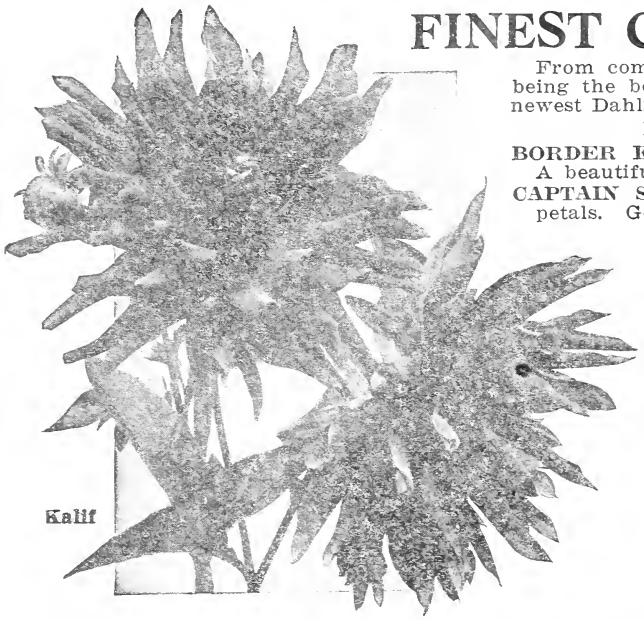
[illegible] Dark crimson-scarlet; very [illegible]

PRIDE—New. [illegible] free flowering; extra fine. **Each 25c.**

PRINCE CHARMING — Lavender shades, touched with violet and deep rose. **Each 25c.**

SPY—New. Bright shade of light scarlet; very showy. **Each 30c.**

FINEST CACTUS DAHLIAS


Kalif

From comparative tests in the field we have selected the following as being the best of their types and color. This list contains many of the newest Dahlias as well as the best of the older ones.

Prices F. O. B. Portland; if mailed, postage extra

BORDER KING—Large, incurved flower of deep, rich glowing scarlet. A beautiful exhibition variety. **Each 75c.**

CAPTAIN SCOTT—(English Cactus)—A free flowering white with long petals. Good stems and constant bloomer throughout season. **Each 50c.**

CHAS. SHERBROOKE—A new unusual color, of rich scarlet, with reverse of petals old gold. **Each 35c.**

CONQUEST—Beautiful dark, rich crimson of large size with narrow, incurved and slightly twisted petals; fine erect habit of growth; long, wiry upright stems. **Each 50c.**

EDITH CARTER—Yellow, heavily tipped with bright carmine; erect habit and stems; a showy flower. **Each 50c.**

ESTHER—Soft silvery lilac rose. One of the best. **Each 50c.**

ETERDNAND DE LYON (H. C.)—Rich carmine rose, almost magenta; large, full flowers, wavy petals. **Each 50c.**

FRANCES GRAHAM—Giant salmon-rose colored flower, slightly on the hybrid-cactus type. **Each 50c.**

F. W. FELLOWS—One of the largest Cactus Dahlias, blooms freely, long stems, orange narrow straight petals. **Ea. 50c.**

GEO. WALTERS—One of the largest and best varieties to date. Salmon pink with gold suffusion in the center. Wonderful bloomer, with long, stout stems. A leader and always in great demand. **Each 50c.**

GOLDEN WEST—California Dahlia of great beauty. Free blooming, on long stems. Color, golden yellow. **Each 60c.**

GUARDIAN—Giant glowing crimson flowers, carried on long stems. One of best for cutting or exhiibtion. **Each 25c.**

HELEN DURNBAUGH (H. C.)—A wonderful new variety. Delicate blush, deepening toward the center to an intense, glowing tint of soft rosy pink. Extra large. **Each 50c.**

HOFFNUNG—A beautiful chamois-rose with light yellow at the base of the long, incurved petals. Wonderful free flowering giant hybrid cactus of great merit. **Each 30c.**

INDOMITABLE—Long, narrow petals, incurved; color, rosy mauve. **Each 50c.**

JOHANNESBURG—Bright gold; monster blooms are produced freely the entire season on strong stems. **Each 35c.**

KALIF—A giant flower, color a brilliant pure scarlet. The immense blooms are freely borne on long, strong stems and make a wonderful display. **Each 50c.**

LA FAVORITA—(California Hybrid Cactus)—This splendid new variety is a beautiful brilliant salmon, shading from a dark salmon in center to salmon pink at points. **Each 50c.**

MAGNIFICENT—New California cactus of immense size, flowers often eight inches across; beautiful oriental buff, overlaid rose-salmon; fine stems; free bloomer. **Each 50c.**

MARGUERITE BOUCHON—An exquisite shade of brilliant yet soft rose pink, with a large, white center; long, straight needle-like petals. **Each 50c.**

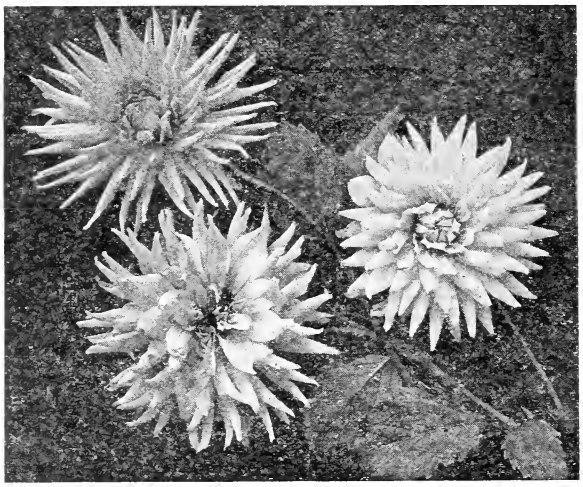
MELODY—Clear yellow, heavily tipped white; large, incurved flower with good stems. A free bloomer. **Each 50c.**

MILTON EDWARDS (New H. C.)—Huge flowers; an odd shade of orange red, or henna; long stems. **Ea. 50c.**

MRS. DOUG. FLEMING—Without doubt one of the best whites. Very narrow, incurved florets, and so numerous as to make monster flowers. Extra free and constant; erect stem. . **Each 50c.**

MRS. EDNA SPENCER (Hybrid Cactus)—Large new variety of a delicate shade of orchid pink. Beautiful form and stout stems, free bloomer, vigorous grower. **Ea. 50c.**

MRS. FREEMAN THOMAS—Salmon pink; free flowering. Early. **Each 30c.**



NORMAN—New. Bright orange red. Very large flowers; extra fine for exhibition. Dwarf grower. **Each 50c.**

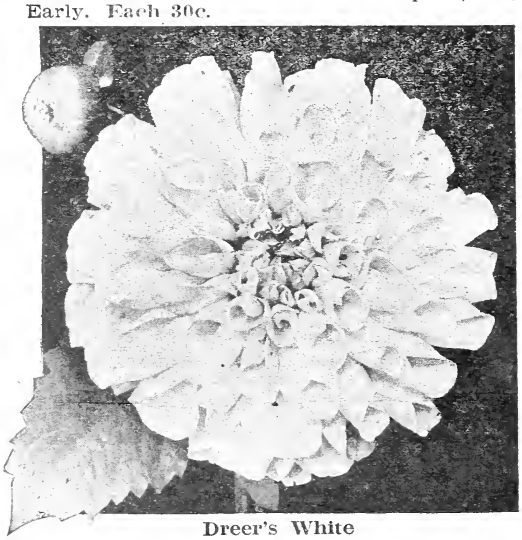
PIERROT—Lovely, deep amber, usually boldly tipped white, immense size, very double. **Each 50c.**

RAPIER (H. C.)—Pure gold shade, tinted salmon; very large and attractive flowers. **Each 35c.**

RECORD—Rich oriental red, shading to yellow center; very free bloomer. **Each 25c.**

RUTH GLEADELL—New. A beautiful shade of yellow suffused with pink on outer petals. **Each 50c.**

SALMON ROSE—Petals broad and curled, light salmon rose, gold center. **Each 35c.**


Dreer's White

TUSTU—Pretty, velvety maroon, free flowering. **Each 25c.**

U. S. A.—Hybrid Cactus—A mammoth flower of exquisite deep orange, very unusual in a Dahlia. Attracts attention everywhere. **Ea. $1.00.**

VICAR OF WASPERTON—An exquisite shade of soft pink, passing to cream center; very large, incurved flowers; narrow petals. **Ea. 75c**

WASHINGTON CITY (H. C.)—Giant star-like flowers of purest white; long, strong stems. **Each 75c.**

YELLOW KING—Deep sulphur-yellow. **Each 35c.**

SHOW DAHLIAS

The show or quilled type is the popular old-fashioned Dahlia so improved that many of our most magnificent flowers belong to this class.

ANNA REHORST—Rich deep shade of purple. **Each 50c.**

DREER'S WHITE—A magnificent white of largest size, great purity, long stems. **Each 35c.**

DREER'S YELLOW—Very large blooms; resembles Dreer's White, except color. **Each 50c.**

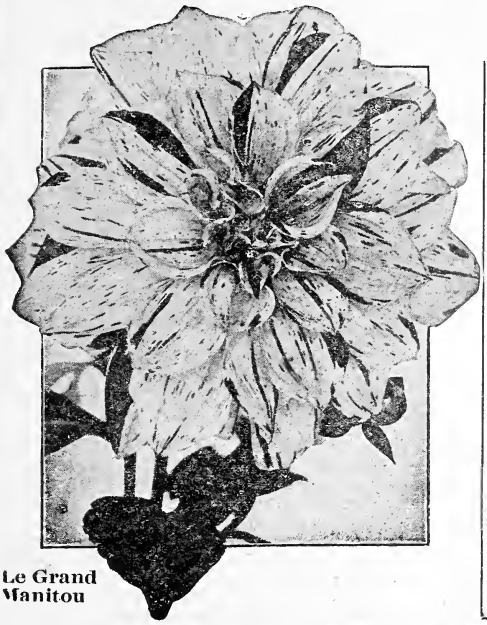
ROBERT MANTELL—New. Deep crimson-maroon. **Each 50c.**

W. W. RAWSON—Pure white overlaid with amethyst blue; often 7 inches in diameter; stiff erect stems. **Each 25c.**

See cultural instructions at bottom of page 57

DECORATIVE DAHLIAS

Prices F. O. B. Portland; if mailed, add postage



Le Grand Manitou

Rare and New Decorative Varieties of Special Merit

AL KORAN—New California Dahlia of immense size and perfect formation. The giant flowers are held on long strong stems, color, yellow suffused goldenrod amber. Very attractive and highly recommended. **Each $2.50.**

CHARM—New. A pleasing shade of burnt orange shading to yellow; large, attractive blooms on good stem. One of the late Judge Marean's wonderful Dahlias. **Each $1.00.**

EARLE WILLIAMS—A brilliant crimson scarlet, each petal tipped white. Immense giant blooms of perfect formation. A prize winner. **Each $1.50.**

EMILY D. RENWICK—New. A fascinating iridescent rose, wonderful color. **Each 50c.**

GLORIEUX—Rich, golden yellow, tinted bronze and usually tipped white. A free bloomer and worthy of a place in the most up-to-date collection. **Each, 75c.**

LADY BETTY—Extra large. Blooms freely all season. Color a lovely creamy white suffused with pink. There are none like it. Decorative. **Each $2.00.**

MARY BURNS—(California Decorative)—A combination of red and old gold, outside of petals old gold, reverse a dull red. A wonderful exhibition variety. **Each, 75c.**

MILLIONAIRE—One of the largest decorative Dahlias. Light lavender shading to white in center. **Each, 75c.**

MRS. CARL SALBACK (Decorative)—New. Immense lavender, pink blooms on exceptionally long, strong stems. **Each, 50c.**

MRS. I. DE VER WARNER—One of the finest decorative Dahlias. Deep mauve pink or orchid. Extra strong grower, producing gigantic blossoms on long stems. **Ea. $1.00.**

OSAM SHUDOW—Famous California Dahlia of recent introduction. Beautiful old rose, suffused with lilac, yellow at base of petals. Blooms 9 to 11 inches across. **Each, $1.50.**

PATRICK O'MARA—(Decorative)—The flowers are 8 inches in diameter and borne on long, strong, erect stems. The color is an unusually soft and pleasing shade of orange-buff, slightly tinged with rose. One of the most lasting cut-flower Dahlias. **Each, 75c.**

SAMUEL L. POLLOCK—New art duplex dahlia. Flowers of the largest size, often 9 inches across, with big wide petals, 2½ to 3 inches in width; color a rich glowing cardinal red, with a large, bright golden yellow center; long stout stems; very showy and attractive in the garden, and an ideal cut flower. **Each, $1.50.**

THE GRIZZLY—(Decorative)—A rare novelty of deep, rich crimson-maroon, on perfect stem. Of immense size and a prolific bloomer. **Each, 75c.**

A MAGNIFICENT COLLECTION

BALLON—A very odd shade of bronze apricot, suffused with gold; quite distinct. **Each 35c.**

BERTHA STORY—New giant, decorative. A beautiful deep rose pink; very large and free flowering. **Each 50c.**

BILLIE BURKE—An extra free flowering, soft yellow of extra large size. The flat petals are narrow and very numerous, forming a bloom of attractive formation. **Each 50c.**

CHOWCHILLA—A bright, warm yellow; petals long, partly rolled; immense flowers. **Ea. 35c.**

DELICE—Lovely shade of pink, broad petaled flowers. **Each 35c.**

DOROTHY ROBBINS—New. Giant blooms of a distinct Autumn shade, deep buff, suffused orange red, grand stems. **Each 75c.**

GEN. CUSTER—Flowers often over eight inches across; color an interesting combination of yellow, white and coral red; no two blooms come alike; very free. **Each 50c.**

HORTULANUS WITTE—Very long stemmed. Pure glistening white. **Each 35c.**

JONKHEER BOREEL—An elegant large flower of brownish buff-yellow color. Most beautiful shade. **Each 50c.**

KING ALBERT—New Holland variety. Pure violet purple; extra large, full flowers; strong stems; early, free flowering. **Ea. 75c.**

LATONA—Fine large flower of pretty pale yellow tinged buff and lavender. Freely produced on the stoutest, erect stems. This Holland creation is in great demand. **Ea. 40c.**

LE GRAND MANITOU—Extra large variegated flowers; white striped and spotted violet-purple. **Each 25c.**

MADONNA—Flowers of hybrid cactus type. One of the most charming white Dahlias. The blooms are often 8 inches across, ivory white. Last for days when cut. **Each 50c.**

MINNIE BIRGLE—Bright rich red. **Each 25c.**

MARCELLA—A delightful, clear, soft pink. Bound to become a great favorite. **Each 35c.**

POLAR STAR—The purest white Dahlia of remarkable beauty. Flower is large and full and carried on 18-inch stems. **Each 50c.**

PORTHOS — New Holland Dahlia. Large blooms of deep lavender-mauve. **Each 75c.**

PURPLE MANITOU—A clear deep purple The best of its color. **Each 35c.**

ROSEMAROR—Giant blooms 9 to 12 inches, color a beautiful rich rosy pink. **Each 75c.**

SEQUOIS GIGANTEA—A very large, deep buttercup yellow; stout stems. One of the largest and best. **Each 75c.**

SOUVENIR DE GUSTAVE DOAZON—Magnificent rich scarlet, often growing 9 inches in diameter; constant bloomer. **Each 25c.**

SULPHURIA—An extra large, clear sulphur yellow, without shading. Early and a most constant bloomer. **Each 50c.**

PAEONY FLOWERED DAHLIAS

NEW PAEONY TYPE VARIETIES

CITY OF PORTLAND—Truly a wonderful dahlia. Color a clear, rich, deep yellow. Immense flowers that are graceful and artistic, held upright on long stems. Paeony type. **Each, 75c.**

EDITH CAVELL—Enormous flowers on very long, stout stems. Without doubt one of the greatest novelties ever offered. Full petaled Paeony flowered type. Reddish bronze, shaded with old gold. **Each, 75c.**

ELIZABETH BOSTON (Paeony)—New. Giant blooms of deep crimson, shading to old gold at tips. Extra long stout stem. Decidedly one of the largest and best Dahlias of recent introductions. **Each, $1.00.**

NAIAD—An exquisitely tinted cream pink, extra long stems and large flowers; very beautiful cut flower for the home. **Each, 35c.**

OREGON SUNSET—A new Paeony Dahlia of wonderful beauty. Rich golden yellow, heavily suffused reddish brown. Free flowering, long stout stems. **Ea. 75c.**

ORIENT—A beautiful combination of orange scarlet, and bright yellow. Very showy, and fine for cutting. **Each, 25c.**

OSAKA GIESHA—Huge flowers, often 10 inches across, held on extra long stiff stem; very odd color; face of petals sulphur yellow, back a dull red. **Ea. $1.00.**

PACIFIC GLOW—Giant blooms of a beautiful salmon pink shade. **Each, $1.00.**

PEARL DELGAR—Very large and beautifully formed flowers, a new color, best described as a dull plum color. **Each 50c.**

Pvt. BYRON STREETER—New. A fascinating shade of lilac-purple, suffused dark lilac on outer petals; enormous very double flowers; strong stems. **Ea. 75c.**

ROSA NELL (Paeony)—New. A beautiful clear bright rose color; immense flowers on excellent stems. A novelty of great merit. **Each, $1.50.**

BILLIONAIRE—One of the largest Paeony Dahlias grown. Beautiful shade of bright golden orange. **Each 50c.**

BLACK BEAUTY—Dark velvety maroon, often shaded violet. **Each 35c.**

CARMENSYLVIA—An exquisite shade of salmon pink. Of fine form. Extra fine for cut flowers. **Each 35c.**

FANTASTIQUE—Distinct and decidedly different; large semi-double flowers, irregularly curled and twisted petals, color deep wine crimson, tipped and edged with pure white. **Each 50c.**

FORDHOOK CERISE—New. A brilliant shade of cerise, profuse bloomer. **Each 50c.**

GEISHA—Golden yellow, changing to red and again to yellow tips. A sure bloomer and most popular. 8 to 10 inches across. **Each 50c.**

HELEN LADD CORBETT — Beautiful, soft pinkish lavender of large size and perfect form. Long stems, constant bloomer. **E. 30c.**

HI GILL—Golden yellow, reverse bronze; very large on long, strong stems. **Each 50c.**

HOPE — English variety. Beautiful mauve color; very large blooms; long stems. **Ea. 50c.**

HOWITZER—New. Extra large gorgeous yellow blooms striped and splashed with scarlet. Very attractive. **Each $1.00.**

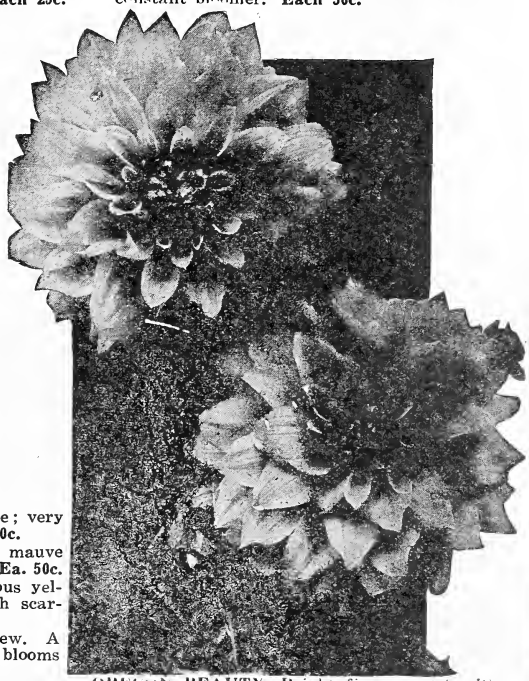
LIEUT. ORVILLE A. STEVENS—New. A distinct shade of light orange-scarlet; blooms large, on good stems. **Each 25c.**

MADAM VON BYSTEIN—A magnificent lilac lavender, changing to light blue. **Each 25c.**

MAPLE LEAF—A rich golden yellow, heavily marked with red. Very unusual. **Each 40c.**

MEYERBEER — Holland variety of largest size; crimson, suffused and lined purple; extra long, strong stems. **Each 75c.**

MRS. JACK GREEN—(Paeony)—A very large and full flower on a strong stem. Color a beautiful shade of rich scarlet. **Each 50c.**



OREGON BEAUTY—Bright fiery scarlet with golden sheen. Free blooming. **Each 35c.**

PRIDE OF CALIFORNIA—Large red flower, very attractive and an exceptionally good keeper. Fine for exhibition. **Each 50c.**

PRIDE OF PORTLAND—An immense flower, the color of Geisha but the yellow is brighter and also the red. **Each 75c.**

STEPHEN LOMA — Pleasing dark magenta color, with fine stems. **Each 50c.**

WHITE FLAG—Pure snow white. **Each 35c.**

DIAMOND QUALITY ROSES are large, sturdy, two-year-old, field-grown roses that will give you splendid flowers the first season. They are true to name and our list includes the best of the well known popular varieties, the most meritorious of recent novelties and the Gold Medal roses of famous European growers.

Planting and Care

THE TIME TO PLANT—Roses may be planted either in the Fall or Spring. It should be done early, and we earnestly request our friends to place their orders in mid-Winter to that shipment can be made at the most favorable time.

PLANTING—Deep preparation of the soil is urged. Be sure and stir the ground thoroughly to the depth of 18 inches and at least two feet if soil is inclined to be wet or soggy, filling in extra six inches with stones to insure drainage. Bone meal if available, worked into ground at time of planting will be a big help, using one large trowel full to a plant. Sheep manure in a little larger proportion is also good. If planting in the Fall prune tops but slightly but be sure to trim all root ends back unless this has been done at the nursery. In the Spring trim back all branches to not more than 4 eyes. Plant your roses at least 2 inches deeper than the crown from which the sprouts arise.

CULTIVATION AND PROTECTION—Keep the soil well stirred but do not cultivate deeper than 2 inches. Soak the ground when you do water and then do not water again until the surface is quite dry. Be sure to protect your roses from insects and disease by spraying. We handle a full line of these essential sprays and will readily help you with your troubles.

PLEASE NOTE—We have done our best to secure a list of roses that will satisfy everyone. It is impossible to list the hundreds of varieties of roses that are now on the market but we have selected what we consider the choicest and best to list in our catalog. When ordering, please state if we may replace sold out varieties with others equally as good. This will save the delay of correspondence.

We have made up collections of roses consisting of all shades and colors in each collection for those not knowing individual roses. These collections are really worth having, besides saving you money.

SHIPPING—We always send all our two-year-old rose bushes charges collect by express or freight, packing them so they will carry safely even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost to cover postage, but in such cases we always prune the tops and roots ready for planting. Add 5c postage for each bush.

PORTLAND SEED COMPANY'S
Hardy Garden Collection 12 Roses for $4.85

Consisting of one each Dinsmore, Dorothy Page Roberts, Franz Deegan, Frau K. Druschki, Conrad F. Meyers, La France, General Jack, Constance, Baroness Rothschild, American Beauty, Caroline Testout, White La France.

PORTLAND SEED COMPANY'S
Choice Collection of 12 Roses for $6.25

Consisting of one each Duchess Wellington, Duchess Sutherland, Frank W. Dunlop, Hoosier Beauty, K. A. Victoria, Los Angeles, Lady Alice Stanley, Miss Lolita Armour, Mrs. Aaron Ward, Hugh Dickson, Premier, Margaret Dickson Hamill.

COMPLETE ALPHABETICAL LIST OF ROSES

FOR COMPLETE DESCRIPTIONS OF EACH ROSE SEE THE PAGE NUMBER MENTIONED AFTER EACH PRICE

	Price	Page
Admiral Ward	$ .40	62
American Beauty	.50	63
American Beauty Climber	.60	63
Amelia Gude	.90	61
Arthur R. Goodwin	.65	61
Avoca	.65	61
Baroness Rothschild	.40	63
Betty	.50	62
Black Prince	.40	63
British Queen	.40	62
Cecil Brunner	.50	62
Cecil Brunner Climber	.75	63
Chameleon	1.00	61
Christine	.90	61
Cleveland	.50	61
Climbers		63
Colonel Leclere	.90	61
Columbia	.65	61
Conrad F. Meyer	.35	63
Constance	.65	61
Countess Clanwilliam	.65	61
Cornelia	1.50	61
Crusader	.90	61
Dean Hole	.50	62
Dinsmore	.40	63
Donald McDonald	.65	61
Dorothy Page Roberts	.50	62
Dorothy Perkins Rambler	.40	63
Dr. Van Fleet Climber	.75	63
Duchess of Sutherland	.50	62
Duchess of Wellington	.50	63
Edward Mawley	.50	62
Edith Cavell	.65	61
Edith Part	.65	61
Ethel Somerset	1.50	61
Etoile de France	$ .50	62
Etoile Luisante	.90	61
Evelyn	.90	61
Evening Star	1.50	61
Frank W. Dunlop	.65	61
Franz Deegan	.65	61
Frau Karl Druschki	.40	61
Fred J. Harrison	3.00	61
General Jacqueminot, H. P.	.40	62-63
General McArthur	.50	62
General McArthur Climber	.75	63
George Dickson	.50	62
George C. Clemenceau	.65	61
George C. Waud	.65	61
Gloire de Dijohn Climber	.75	63
Glow Worm	1.00	61
Golden Emblem	.90	61
Golden Spray	.90	61
Gorgeous	.65	61
Green Rose	.90	61
Grus Au Tepliz or Virginis R. Coxe	.50	62
Hadley	.50	62
Harry Kirk	.40	62
Hiawatha Rambler	.40	63
Hoosier Beauty	.65	61
H. V. Machin	.50	62
Hugh Dickson	.40	63
Irish Elegance	.50	62
Irish Fireflame	.50	62
Isobel	.65	61
J. B. Clarke	.40	62
Juliet	.50	62
Kaiserin Aug. Victoria	.40	62
Kaiserin A. Victoria Climber	$ .75	63
Killarney	.50	62
K of K	.50	62
Lady Alice Stanley	.50	62
Lady Hillingdon	.65	61
Lady Inchiquin	2.00	61
Lady Ursula	.50	61
Lady Roberts	.50	62
La France	.50	62
La France Climber	.75	63
La Somme	1.50	61
Lillian Moore	.65	61
Los Angeles	.65	61
Louise Baldwin	1.50	61
Louise Catherine Breslau	.75	61
Lulu	1.50	61
Lyon	.50	62
Mad. Butterfly	.50	62
Mad. Caroline Testout	.50	63
Mad. Caroline Testout Climber	.75	63
Mad. Edouard Herriot	.75	61
Mad. Melaine Soupert	.65	61
Mad. Ravary	.75	61
Madeline Pacaud	2.50	61
Maman Cochet	.50	62
Marechal Neil Climber	1.00	62
Marquis De Sinety	.75	62
Miss Lolita Armour	.65	62
Mildred Grant	.50	62
Mrs. Aaron Ward	.65	62
Mrs. Alfred Tate	.65	62
Mrs. Ambrose Ricardo	.65	62
Mrs. Charles Russell	.65	62
Mrs. F. W. Vanderbilt	.65	62
Mrs. John Lang	$ .40	63
Mrs. S. K. Rindge	.65	62
Old Gold	.65	62
Ophelia	.65	62
Padre	1.50	61
Paul Neyron	.40	63
Paul's Scarlet Climber	.75	63
Papa Gontier	.50	62
Papa Gontier Climber	.75	63
Pilgrim	.65	62
Pink Cherokee Climber	.75	63
Premier	.75	62
Pres. W. R. Smith	.50	62
Queen of Fragrance	.65	62
Rayon D'Or	.50	62
Red Columbia	.65	62
Red Dorothy Perkins Rambler	.40	63
Red Letter	.65	62
Richmond, H. T.	.50	62
Silver Moon Climber	.75	63
Souv. De Claudius Pernet	1.00	61
Souv. De Mme. Louis Crette	3.00	61
Sunburst	.65	62
Sunburst Climber	1.00	63
Sunstar	2.00	61
Tausendschon Rambler	.40	60
Theresa	.50	62
Ulrich Brunner	.40	63
Violet Parncutt	3.00	61
Viscountess Folkestone	.50	62
W. C. Gaunt	.65	62
White Dorothy Rambler	.40	63
White Maman Cochet	.50	62
William F. Dreer	.65	62

PROTECT your ROSES from Aphis, Mildew and other diseases, by using **CLENSEL**, a new spray that has been found very efficient ½ pint 60c makes 3 gallons; **Pints $1.00; Quarts $1.75; Gallons $5.50; F. O. B. Portland.**

RARE NEW GARDEN AND EXHIBITION ROSES

FINE 2-YEAR DORMANT PLANTS

CORNELIA (H. T.)—Cross between Ophelia and Mrs. Aaron Ward. Medium sized flowers. Bud beautiful salmon-pink. Flowers open with bright orange base. **Each $1.50.**

ETHEL SOMERSET (H. T.)—Shrimp pink, edge of petals deep coral pink. Good stems and free bloomer. **Each $1.50.**

EVENING STAR (Pern.)—A sport of Mad. Edouard Herriott. Color much more brilliant. **Each $1.50.**

FRED J. HARRISON—Cardinal red with black blotches on edges. Flowers large, double, fragrant and lasting, growth vigorous. Continuous bloomer. **Each $3.00.**

LADY INCHIQUIN (H. T.)—Orange cerise. A distinct and novel color. Perfect formed blooms. **Each $2.00.**

LA SOMME (Pern.) — Bud round orange red and deep copper. Flowers large formed like Testout; deep coral red shaded copper and bright salmon. **Each $1.50.**

LOUISE BALDWIN (H. T.) — This new English rose has the form of Lady Hillingdon. Well shaped flowers of rich orange with soft apricot shading. **Each $1.50.**

LULU (H. T.)—Orange salmon and pink. Has the longest buds of any rose yet introduced. **Each $1.50.**

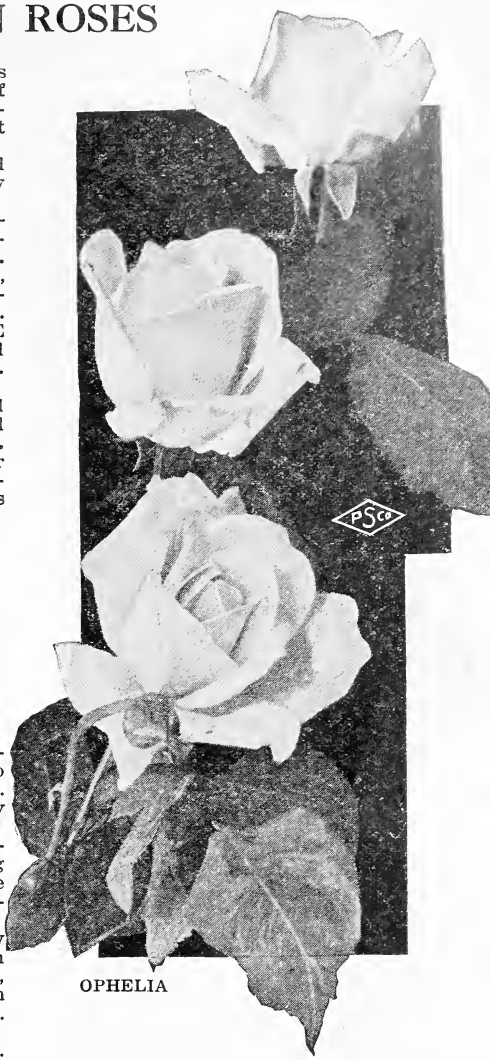
MADELEINE PACAUD (H. T.)—Bright rose tinted, salmon and copper, large and vigorous. **Each $2.50.**

PADRE (Pern.) — Coppery scarlet, flushed yellow at base. Unusual color commands attention. **Each $1.50.**

SOUV. DE MME. LOUIS CRETTE (Pern.) — Golden yellow, shaded coral and red. Bud long pointed. Foliage bronze green. **Each $3.00.**

SUNSTAR (Pern.)—Deep orange and yellow edged, veined and splashed crimson and vermillion. **Each $2.00.**

VIOLET PARNCUTT (H. T.)—Color like Irish Fireflame but with semi-double flowers. Free continuous bloomer. **Each $3.00.**



OPHELIA

BEAUTIFUL ROSES OF RECENT INTRODUCTION

The following are the recent novelties and Gold Medal roses that have proven their merit and are now generally in great demand.

Fine 2 year Field Grown Dormant Plants

90 Cents Each, Except as Noted

AMELIA GUDE (H. T.)—Color the shade of Sunburst, with touch of orange on reverse petal. Ideal for table decoration.

CHAMELEON (H. T.)—Pure flame edged cerise. Beautiful cedar green foliage. **Each $1.00.**

CHRISTINE (H. T.)—A good deep persistent yellow. Has shapely buds and handsome flowers.

COLONEL LECLERE (H. T.)—Beautiful cherry red, washed with carmine lake. Fine Autumn bloomer.

CRUSADER (H. T.)—An American rose, producing large crimon flowers. Beautiful foliage.

ETOILE LUISANTE (Poly.)—Something new in a baby rose. Similar to Cecile Brunner but colored like Mad. Edouard Herriott. Brililant.

EVELYN—One of the finest roses grown. Color salmon white, shaded and bordered rose. Fragrant.

GLOW WORM (Pern.)—A most beautiful new single rose, similar to Fireflame but by far more brilliant. Rich scarlet suffused coppery orange. **Each $1.00.**

GOLDEN SPRAY—A rampant growing ever-blooming rose, with long arching canes forming attractive sprays of golden yellow buds, opening into large single flowers.

GOLDEN EMBLEM—A grand new Irish rose of ideal habit of growth with holly-like glossy green foliage, each stem bearing a glorious golden yellow flower of the finest form. The peer of all yellow roses.

GREEN ROSE (C) — Novelty rose. The only green rose extant. Color deep pea green. Very odd.

PREMIER—New. A clear pleasing red that does not fade. Good form and habit, excellent for cutting and inside forcing. **Each 75c.**

SOUV. DE CLAUDIUS PERNET (Pern.)—On the order of Constance or Golden Emblem but with large elongated and beautifully formed buds. Clear brilliant yellow. Wonderful foliage. **Each $1.00.**

65 Cents Each, Except as Noted

ARTHUR R. GOODWIN (Pern.)—Excellent rose, buds open in copper mixed with orange-red, later replaced by soft salmon pink.

AVOCA (H. T.) — Crimson scarlet large well formed flowers.

COLUMBIA (H. T.) — One of the greatest of recent introductions. The color is a true pink, deepening as it opens to a glowing pink. A striking peculiarity of this rose is that the shades all deepen as the rose opens. Single buds, long stems, splendid for cutting.

CONSTANCE — Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds.

COUNTESS CLANWILLIAM (H. T.)—Producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers.

DONALD McDONALD (H. T.)—Medium sized, well shaped flowers of intense orange carmine.

EDITH CAVELL (H. T.)—Color pale lemon-white, long pointed buds. Good show and decorative variety.

EDITH PART (H. T.)—Well shaped buds, and blooms of rich red, suffused salmon and yellow.

FRANZ DEEGAN (H. T.) — Center golden yellow, outer petals soft yellow. Very fragrant.

FRANK W. DUNLOP (H. T.) — A Canadian rose of brilliant dark pink color. Free flowering.

GEORGE C. CLEMENCEAU (H. T.)—Bright orange shaded carmine.

GEORGE C. WAUD (H. T.)—A beautiful variety possessing a distinct color. Glowing vermilion with orange red suffusion.

GORGEOUS—Strong, vigorous growing, with handsome olive-green foliage. Color deep orange-yellow, heavily veined and reddish copper.

HOOSIER BEAUTY—Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant.

ISOBEL (H. T.)—Single rose. Rich crimson, flushed orange scarlet with pure yellow center. Fragrant.

LADY HILLINGDON (T.)—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting. Foliage luxuriant. A fine forcing or garden rose.

LILLIAN MOORE (H. T.)—Flowers large and full; pure Indian yellow with slightly deeper center. Buds long and pointed.

LOS ANGELES (H. T.)—Flame pink toned with coral and shaded gold at base of petals; fragrant, vigorous and very free blooming.

LOUIS CATHERINE BRESLAU (H. T.)—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange. **Each 75c.**

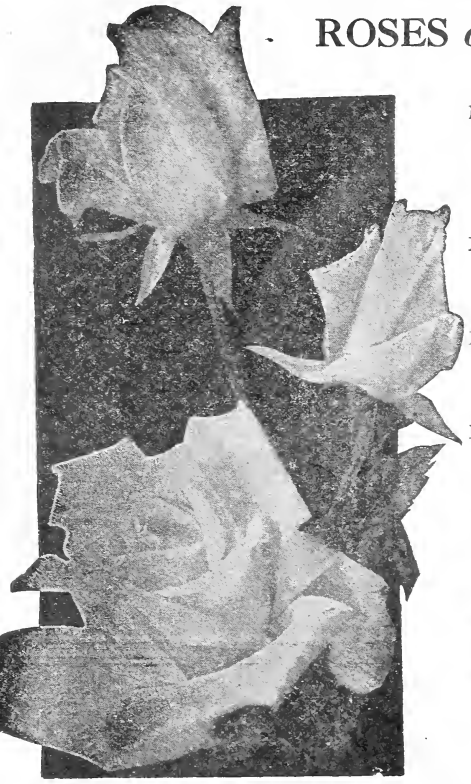
MADAME MELANIE SOUPERT (H. T.)—Splendid new orange yellow shaded pink; beautiful long-pointed buds. Best of its color.

MAD. EDOUARD HERRIOTT—The famous winner of the Daily Mail Prize. The color being terra cotta bronze and geranium red, new combination of colors in rose. **Ea. 75c.**

MAD. RAVARY (H. T.) — Clear orange-yellow, long-pointed buds; flowers of fine form. **Each 75c.**

MARGARET DICKSON HAMILL—Delicate straw color, its shell-like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and exquisitely fragrant. Bronzy green foliage on deep crimson leaf-stalks. Very distinct and a gem among new roses. **Each 60c.**

MARQUIS DE SINETY (H. T.)—Deep saffron yellow, flushed reddish copper. Flower large. **Ea. 75c.**



ROSES *of* RECENT INTRODUCTION (CONTINUED FROM PAGE 61)

65c Cents Each, Except as Noted

MISS LOLITA ARMOUR—A magnificent new rose produced by the same hybridizer who gave us Los Angeles. Color chrome yellow at base of petals, shaded to coppery orange. Flowers very large, of finest form, on stout canes.

MRS. AARON WARD (T.)—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the most beautiful roses in existence.

MRS. ALFRED TATE (H. T.)—Coppery red shaded fawn. Buds are about the longest we have ever seen on an outdoor rose. Will easily rank with the very best.

MRS. AMBROSE RICHARDO (H. T.)—Large blooms of a fine deep yellow overlaid with a lighter yellow suffused pink.

MRS. CHARLES RUSSELL (H. T.)—"American Beauty" can not compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

MRS. F. W. VANDERBILT (H. T.)—Deep orange red, shaded bronze apricot red. A very attractive variety.

MRS. S. K. RINDGE—A sister variety of Lolita Armour. Buds very long and pointed, rich golden yellow outside of petals stained at base with **Indian red.**

OLD GOLD (H. T.)—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings.

OPHELIA (H. T.) — Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

PILGRIM—(H. T.)—A lovely silver pink. Vigorous and free blooming.

QUEEN OF FRAGRANCE (H. T.)—Large double elegantly shaped shell pink blooms, tipped with silver. Noted for its powerful perfume.

RED COLUMBIA (H. T.) — Semi-double rose, being a sport from Columbia. Brilliant scarlet crimson.

RED LETTER DAY—Brilliant glowing crimson scarlet, opening into medium-sized cactus-shaped flower of curious formation. One of the freest blooming roses.

SUNBURST (H. T.)—The finest of all yellow roses with long pointed buds. Color a superb cadmium yellow with orange yellow center. The foliage is a handsome bronze green.

WILLIAM F. DREER — Soft shell pink, base of petals rich golden yellow.

W. C. GAUNT (H. T.)—Bright vermilion tipped scarlet. Fine bud and foliage.

The Following Varieties—50c Each, Except Where Noted

Two-year-old Field Grown Plants

CECILE BRUNNER — Bright, rose, yellowish in center; very sweet; dwarf polyanthus.

CLEVELAND (H. T.)—Deep coppery yellow at base of petals, flushed reddish copper. Very large, beautifully formed and a fine variety.

DUCHESS OF SUTHERLAND (H. T.)—Gorgeous pink buds with fairy-like texture shading to pale lemon yellow at base.

ETOILE DE FRANCE (H. T.)—Well formed buds that develop into full open flowers of red and soft velvety crimson shading to vivid crimson.

GENERAL McARTHUR (H. T.) — Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

GENERAL JACQUEMINOT (H.P.)—Bright shining crimson; very rich and velvety. **Each 40c.**

GRUS AN TEPLITZ or VIRGINIA R. COXE (H. T.)—Color fiery crimson, with a dark velvety sheen, very fragrant. Free blooming.

H. V. MACHIN (H. T.)—Similar to Hadley both in color and texture. A good rose in any garden.

IRISH ELEGANCE (S.)—Large, single, golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage.

IRISH FIREFLAME (S.) — Deep orange-splashed crimson, changing to fiery orange crimson; buds hold shape long time.

J. B. CLARKE—New Irish variety of great merit either for garden decoration or for cut flowers. The color is bright crimson shaded maroon; petals large, flowers very full and perfectly formed. Flowering from early Summer until late Autumn. **Each 40c.**

JULIET (H. B.)—A wonderful combination of old gold outside of petals and rich rosy red inside. Flowers large, full, delightfully scented.

KAISERIN AUG. VICTORIA (H. T.) Elegant, large pointed buds; full double flowers; color delicate creamy white; fragrant. **Each 40c.**

K OF K (H. T.) — Intensest scarlet known. Semi-single, huge petals. Free bloomer, sweet scented.

LADY ALICE STANLEY—Deep coral rose outside of petals, pale flesh color on inside. Long pointed buds.

LADY ASHTOWN (H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large.

LADY URSULA (H.T.)—A clean flesh pink with little shading, plant a good grower and notable bloomer.

LA FRANCE (H. T.)—A silvery rose, changing to pink. Sweetest of all.

MAD. BUTTERFLY (H. T.)—Sport of Ophelia, brilliant pink suffused apricot and gold.

MAMAN COCHET (T.)—Color is a deep rosy pink, the inner side of the petals silvery rose.

PRES. W. R. SMITH—Creamy white with shadings of pink, seedling from Maman Cochet and K. A. Victoria.

RAYON D'OR — A gorgeous yellow rose with wonderful foliage. Needs a little protection in severe Winters.

THERESA (H.T.)—Semi-double flowers of deep orange apricot passing to flushed pink.

VISCOUNTESS FOLKESTONE — Large flowers of creamy white and salmon pink, darker in center.

WHITE MAMAN COCHET (T.)—Immense size, exquisitely fragrant, long, pointed buds.

GRAND GARDEN ROSES—50c Each, Except as Noted

Two-year-old Field Grown Plants

ADMIRAL WARD (H. T.)—A fine bedding variety of vigorous growth and erect branching habit. Spherical blackish red bud opening to large, full, globular flowers of crimson red with shadings of fiery red and velvety purple. **Each 40c.**

BETTY (H, T.)—Beautiful coppery rose color, overspread with golden yellow. Fragrant.

BRITISH QUEEN (H. T.)—Pure white, large, full flowers, opening freely. One of the best white roses for bedding and cutting.

DEAN HOLE (H. T.)—Beautiful silvery crimson, shaded golden pink. Free bloomer.

DOROTHY PAGE ROBERTS (H. T.)—Coppery pink, suffused with apricot yellow, free and perpetual, delightful garden rose.

EDWARD MAWLEY (H. T.)—Long pointed buds of deep, rich, velvety crimson. Growth is upright and branching with handsome foliage. One of the finest red roses.

GEORGE DICKSON—Very large, ful and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon. A magnificent rose, invaluable for exhibition.

HADLEY—A fine American pedigreed rose producing flowers of elegant form and substance. Color rich crimson scarlet shaded maroon. A glorious rose.

HARRY KIRK (H. T.)—Deep sulphur-yellow passing to a lighter shade at the edge of petals. Robust growth; free branching habit. **Each 40c.**

KILLARNEY—The new Irish Beauty. Color an exquisite shade of deep shell pink, lightened with silvery pink. The base of the petals is a soft silvery white relieved with enough yellow to make it more attractive. The buds are long and beautifuly formed.

LADY ROBERTS—Rich apricot yellow, base of petals coppery red shaded with orange. Nice long sharply pointed buds, developing into well formed open flower. A pure-bred tea-rose of great merit.

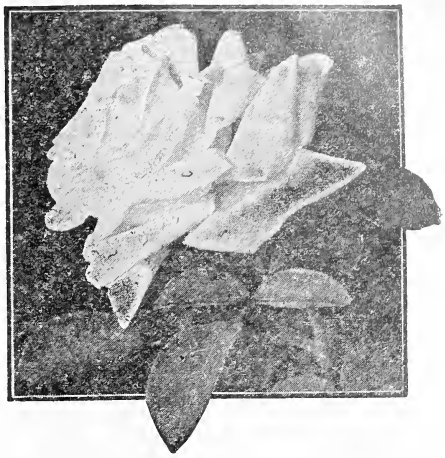
LYON (Pernetiana)—Beautiful shrimp pink with salmon and chrome yellow shadings. Large coral red buds, beautifully formed. A continuous and free bloomer.

MILDRED GRANT (H. T.) — Silvery white flushed delicate pink. By far the largest variety in the H. T. class, and easily the largest rose of good form. In spite of their great size and weight the flowers are borne perfectly erect, as stems are amply stiff and strong.

PAPA GONTIER (T.)—A vivid cherry red shaded yellow, reverse of petals crimson.

RICHMOND (H. T.) — Vivid red buds and flowers of most perfect, desirable forms.

Finest Hardy Perpetual Roses



FOR Eastern Oregon and Washington or in sections where the Winters are severe, this collection will thrive and bloom freely where the Tea and Hybrid roses would not prove satisfactory.

Two-year-old Field Grown Plants 40c Each Unless Otherwise Noted

AMERICAN BEAUTY (H. P.)—One of the largest, sweetest and best; rich, glossy crimson, shaded and veined in a most charming manner.

BARONESS ROTHSCHILD (H. P.)—Flowers of immense size; color bright rosy pink.

BLACK PRINCE—Almost a black rose. Very hardy, large and full. **Each 50c.**

CONRAD F. MEYER—A most valuable addition to the list of hardy free-blooming roses. The color is a beautiful silvery pink. **Each 35c.**

DINSMORE—One of the best hardy red roses. Prolific bloomer and very fragrant.

FRAU KARL DRUSCHKI (H. P.)—The white American Beauty. Makes splendid buds and immense flowers; perfectly double. **Each 50c.**

DUCHESS OF WELLINGTON (H. P.)—Intense saffron yellow stained with rich crimson which as the flower develops, become deep coppery saffron yellow. Delightfully fragrant. **Each 50c.**

GENERAL JACQUEMINOT (H. P.)—Bright shining crimson; very rich and velvety.

HUGH DICKSON (H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer. (Should be cut back freely.)

MADAME CAROLINE TESTOUT—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively. **Each 50c.**

MRS. JOHN LANG (H. P.)—A soft, delicate pink, with satiny tinge; very free flowering.

PAUL NEYRON (H. P.)—Deep, shining rose, blooms freely, the largest variety in existence.

ULRICH BRUNNER (H. P.)—Extra large, bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet.

THE POPULAR RAMBLER ROSES

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season. Two-year-old plants 40 cents each.

DOROTHY PERKINS — Polyanthus type; a beautiful bright shell-pink; large double flowers.

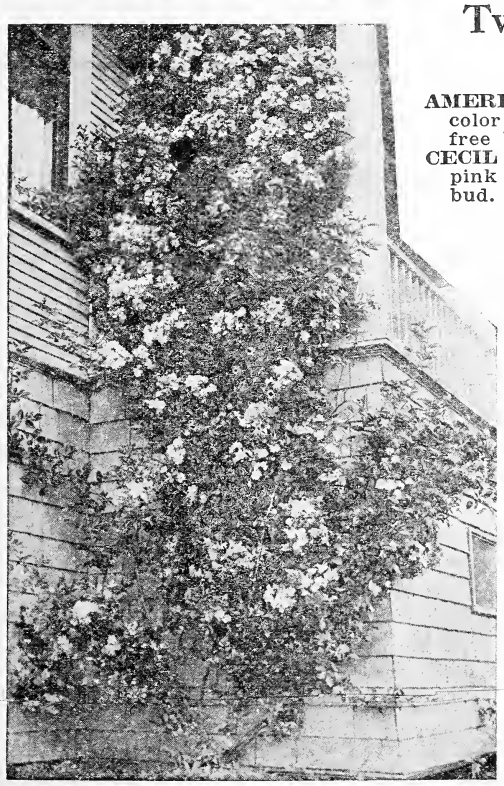
HIAWATHA (T.)—Single, ruby crimson, large single flowers.

RED DOROTHY PERKINS—Fine crimson rambler; glossy green foliage; never troubled with mildew. Flowers very double.

TAUSENDSCHON—A lovely shade of soft pink, free and vigorous; splendid foliage.

WHITE DOROTHY—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety, but having pure, white flowers.

CLIMBING AND PILLAR ROSES



Two-year-old Bushes, Field-grown, 75c Each (Except as Noted)

AMERICAN BEAUTY—Rich crimson color; delightfully fragrant; very free bloomer. **Each 60c.**

CECIL BRUNNER—Clusters of pretty pink flowers, especially beautiful in bud.

GLORIE DE DIJON—An old favorite, noted for its free flowering, its delicate tea scent, and its shades of color, being a blending of amber.

GENERAL McARTHUR (H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

KAISERIN A. VICTORIA—Strong rapid growing climbing form of the popular rose. Fine large ivory white flowers.

LA FRANCE—Identical with the well known La France; vigorous climber.

MAD. CAROLINE TESTOUT—Immense globular flowers of the same bautiful shade of pink as seen in the bush sort.

MARECHAL NEIL—A magnificent deep golden yellow variety; so famous as to need no description; finest of its color. **Each $1.00.**

DR. VAN FLEET—Flowers large with high built center and petals beautifully undulated and cupped. Color the most beautiful shade of shell pink ever seen in a rose. A rank climber, immune from mildew.

PAULS SCARLET CLIMBER—By all means the most brilliant rose known in any class because of its clear, vivid, shining scarlet in large semi-double flowers. These flowers never turn blue but retain their intense coloring until petals fall. Cannot be too heartily commended as essential in any garden.

PAPA GONTIER (T.) — A "Native Sport" from this favorite variety.

PINK CHEROKEE—Lovely single blossoms, 3 to 5 inches in diameter, saucer shaped and of a beautiful shade of light pink.

SILVER MOON — Similar in habit of growth to Dr. Van Fleet, but with large saucer-like single flowers of silvery white color. Flowers of wonderful substance on long stems.

SUNBURST—A splendid climber of the same beauty and freedom of bloom as the bush form of this popular rose. **Each $1.00.**

Cinnamon Vine

Ornamental Climbing Vines

CINNAMON

CINNAMON VINES are the most desirable, easiest grown climbers in the world. They are from China—the land of wonders. Their abundant blossoms perfume the air for a long distance. No words can describe their delicious fragrance. Perfectly hardy—thriving in all soils, in sun or shade, wet or dry. No insects, blight or disease of any kind ever troubles them, no Winter harms. Once planted they will grow a lifetime. **Each 25c; five for $1.00, postpaid.**

CLEMATIS

Clematis is one of the most beautiful and useful climbers. Their magnificent flowers, borne in great profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the Spring, and tie the vine up well to its support.

RAMONA—Beautiful lavender, best of its color. **Each $1.00, postpaid.**

VILLE DE LYON—Red. **Each $1.00.**

HENRYI—Fine, large, creamy white flowers; a strong grower and very hardy. **Each $1.00, postpaid.**

JACKMANII—Intense violet purple with a rich velvety appearance; distinctly veined. **The above large plants, each $1.00, postpaid.**

CLEMATIS PANICULATA—A rapid and vigorous grower; it produces sheets of medium sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences. **Choice plants, 50c; extra fine, 60c.**

DUTCHMAN'S PIPE

ARISTOLOCHIA SIPHO—A handsome, bright green luxuriant vine, having large foliage and brownish, pipe-shaped flowers. A strong rapid grower. **Strong plants, each 75c.**

EUONYMUS

RADICANS—A most beautiful evergreen vine of vigorous growth and perfect hardiness. Clings to stone or brick. Most valuable introduction of recent years and takes the place of ivy. **Each 75c.**

ENGLISH IVY

Large, thick, shining, leathery leaves; evergreen. Plant in sheltered position. **Each 25c.**

HONEYSUCKLE

HALL'S JAPANESE—Almost evergreen, very popular; white turning to yellow. **Each 50c.**

KUDZU

KUDZU VINE (Puereria Thundergiana)—Large foliage and dense shade, growing fifty feet in one season. Flowers plentiful in August, rosy-purple pea-shaped; in small racemes. **Each 50c.**

TRUMPET VINE

BIGNONIA RADICANS (Trumpet Vine)—Strong climber; deciduous; flowers orange scarlet. Blooms mid-Summer. **Each 50c.**

WISTARIA

W. SINENSIS (Chinese Wistaria)—Grows 15 to 20 feet in a season; has long, pendulous clusters of pale blue flowers in May and June and Autumn. **Choice 1-year-plants $1.50.**

WISTARIA 2 SINENSIS (Blue)—Three-year-old grafted. **Each $2.50.**

AMPELOPSIS (Ivy)

VEITCHI "Boston Ivy"—Leaves glossy green, coloring bronze in Fall; flowers small; berries deep blue; clings firmly to smooth walls.

QUINQUEFOLIA "Virginia Creeper"—Common American Ivy.

ENGELMANNI—Similar to Quinquefolia, but leaves slightly smaller, and will cling to walls without any support. Very hardy and attractive. The improved Virginia Creeper. **Strong two-year roots. 50c.**

TRY PAMPAS GRASS

WITH YOUR SHRUBS

This is a very tall ornamental grass, growing 6 to 8 feet in height, with long pointed leaves and majestic silvery white plumes. Easy grower and unusually attractive. **Strong roots. each $1.00.**

BOOKS

Books are the inspiration, the authoritative guide, that enables you to command success, and you should have the standard references on the subjects in which you are interested.

NOTE—C indicates cloth; P, paper cover. All books postpaid at following prices.

Practical Books for Poultrymen

ALL ABOUT INDIAN RUNNER DUCKS. 92 pages	P.	$0.75
AMERICAN STANDARD OF PERFECTION. Latest edition. The official guide for Judges and Breeders for the next three years	C.	2 60
CALL OF THE HEN. By Walter Hogan. Explains fully the famous Hogan System of Breeding and Selection. Recognized as the Standard reference on poultry raising. 138 pages. Cloth	C.	2.10
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FIVE HUNDRED QUESTIONS AND ANSWERS ON POULTRY RAISING		.30
HIGH EGG PRODUCTION BY INDIVIDUAL HENS, PENS AND FLOCKS	P.	2.00
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SUCCESSFUL BACKYARD POULTRY KEEPING. Homer W. Jackson		1.00
USE OF ARTIFICIAL LIGHT TO INCREASE WINTER EGG PRODUCTION		1.60
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CELERY CULTURE. Beattie. 150 pages, 5x7½ inches	C.	1.10
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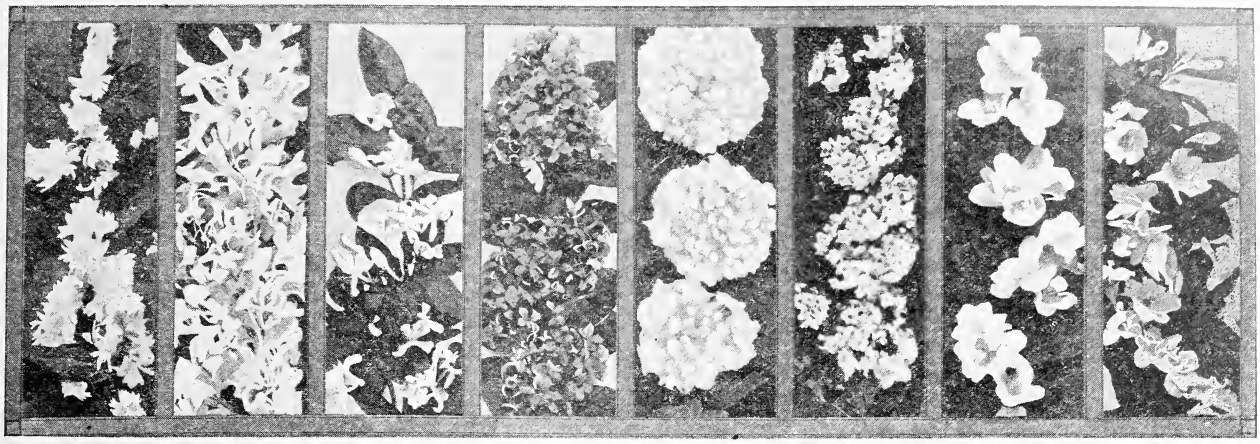
GREENHOUSE MANAGEMENT. Taft. 382 pages, 5x7½	C.	2.35
LANDSCAPE GARDENING. Waugh. 152 pages, 5x7½ in.	C.	1.35
ONION CULTURE, NEW. Greiner. 115 pages, 5x7½ in.	C.	1.00
PRUNING MANUAL, THE. Bailey. 407 pages, 5¼x7¾ in.	C.	3.35
RAFFIA BASKETS, HOW TO MAKE. Morse	C.	.50
STRAWBERRY IN NORTH AMERICA. Fletcher. 234 pages, 5½x7¾ in.	C.	2.25
SMALL FRUIT CULTURIST. Fuller. 298 pages, 5x7½ in.	C.	1.70
TOMATO CULTURE. Day, Cummings and Root. 150 pages 5x7½ in.	C.	.40
BELGIAN HARE GUIDE	P.	.25

Books on Bees and Beekeeping

A. B. C. AND X. Y. C. OF BEE CULTURE. A. L. and E. R. Root 850 pages, 7x10 inches	C.	3.15
EXTRACTED HONEY, HOW TO PRODUCE. Root. 40 pages	P.	.20
FEEDS AND FEEDING. Root	P.	.10
FIRST LESSONS IN BEEKEEPING. Dadant. 150 pages	P.	1.10
HABITS OF THE HONEY BEE, THE	P.	.10
WINTERING BEES. Root.	P.	.10

Bee Papers (All Monthly)

AMERICAN BEE JOURNAL. Illionis	Per Year	$1.50
GLEANINGS IN BEE CULTURE. Ohio	Per Year	1.00
WESTERN HONEY BEE. California	Per Year	1.00



DEUTZIA FORSYTHIA HONEYSUCKLE LILAC SNOWBALL SPIRAEA SYRINGA WEIGELIA

DECIDUOUS SHRUBS

Deliveries are made from November until May, orders are accepted at any time for delivery in season.

WE use every precaution to deliver healthy, vigorous stock, but the measure of your success will depend upon the planting and care given, as careless or ignorant handling kills thousands of fine trees and plants every season. Avoid unnecessary exposure of roots to the air. In the case of evergreens that are "balled," **Do not remove the burlap.** Plant as received, only cut the string around the top, then **loosen burlap after tree is set. If you cannot plant immediately on receipt, always "heel" in so roots may be in contact with good soil.**

If the soil is good and properly prepared, only a hole large enough to easily take the roots need be dug, but better results can always be obtained by digging out a large space and filling in with good top soil. In setting the trees, do not put deeper than they stood in the nursery, excepting some dwarfs, which go a little deeper. **Be sure to Pack Earth Solidly Around Roots.** Neglect of this is responsible for many failures.

ALMOND
(Prunus)

PINK FLOWERING—(P. Japonica)—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. **Each $1.50.**

ALTHEA
(Rose of Sharon)

Late Summer blooming shrub that continues on up into the fall when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red. **Each 75c.**

AZALEA

A MOLLIS—Low growing shrub that in early Spring is covered with gorgeous flowers before the leaves appear. Excellent planted under trees or in groups. Cannot guarantee colors, mostly orange, yellow, white. **Ea. $2.50.**

BERBERRY

B. THUNBERG—(Japanese)— Low growing with clusters of white flowers in May. Foliage changes to a red in Autumn. **Each 75c.**

BOX LEAF ELDER

VARIEGATED—The finest variegated tree of the hardy kinds, leaves almost pure white. Nothing finer for specimen planting 4 to 6 ft. Also in silver and gold coloring. **Each $3.00.**

BUDDLEYA
(Summer Lilac—Magnifica)

This fine new shrub produces long straight slender branches that terminate in long spikes of lilac-like flowers of a beautiful shade of lavender blue. Commences to bloom in June and continues until frost. Fine subject for lawn or tall hedge. Two-year plants. **Each 75c.**

BROOM

ALBA—(White)—A fine hardy variety, attaining good size. Blooms in Spring. **Each 75c.**

SCARAPIUS—(Scotch)—Rapid growing shrub bearing clusters of bright yellow flowers in Spring. **Each 75c.**

JUNCEA—(Spanish Broom)—The most beautiful of all, stems almost leafless and of a vivid green. Blooms all Summer when color is most desirable. **Each $1.00.**

CALYCANTHUS

FLORIDUS — (Sweet Scented Shrub) — An old favorite, double, dark crimson flowers, very fragrant and blooms all season. **Each 75c.**

CHERRY

CHERRY — (Cerasus) — Japanese Weeping —4 feet, single pink flowers. **Each $5.00.**

CRAB

BECHTEL'S FLOWERING—Bears masses of double rose-like flowers of delicate pink color, and delightful fragrance, tree shape. **Ea. $1.50.**

DEUTZIA

PRIDE OF ROCHESTER—(Deutzia Crenata)—Pure white, tinged with blush. Flowers very double, blooming May and June. **Each 75c.**

LEMOINE'S—(D. Lemoinei)—One of the hardiest shrubs and most popular variety, flowers in large clusters of pure white. **Each 75c.**

WATERI—(D. Crenata Flora Rosa Plena)—Beautiful dainty double pink flowers. A fine lawn subject. Very showy. **Each $1.00.**

ELAEGNUS

ELAEGNUS, Japan, China—Ornamental shrub of spreading habit. Branchlet ruddy brown, leaves silvery. Flowers small but numerous. Yellowish white and fragrant, followed by scarlet fruit in large clusters. Note—this fruit is edible and makes delicious jelly or juice. **1½ to 2 ft., $1.50 each; 2½ to 3 ft., $3.00 each.**

FORSYTHIA
(Golden Bell)

F. FORTUNEI—Blooms in dense masses of golden yellow flowers in early Spring. Beautiful as lawn tree. **Each 75c.**

INTERMEDIA—One of the finest shrubs for early Spring blooming. Yellow flowers appear before leaves. Height at maturity 4 ft. **Each $1.00.**

HONEYSUCKLE
(Bush)

WHITE TARTERIAN—Bushy upright growth, flowers freely. Red and orange berries stay on until Fall. **Each 75c.**

HYDRANGEA

JAPANESE OTAKSA—One of the most popular lawn plants. The flowers run in shades of pink, blue and white, mineral in soil often changing them to two or three shades in one. For shady places. **Each 75c to $1.50.**

PANICULATA GRANDIFORA—(Tree Hydrangeas)—Grows three or four feet high. Flowers are in cone shape on ends of branches, and are pure white, afterwards changing to pink, remaining on tree until frost. **Each $1.00.**

BUSH HYDRANGEA — Same as Paniculata Grandiflora but not in tree shape. **Each 75c.**

HYPERICUM

PATULUM HENRYI—One of the finest shrubs we have to offer, attaining a height of 4 ft. and covered during the Fall months with masses of large yellow flowers. **Each 75c.**

KERRIA

A very graceful shrub that bears bright yellow flowers. Rose shaped in early Spring, vivid green branches, showy in Winter. **Ea. 75c.**

LILAC (Syringa Vulgaris)
Each 75c. Double, Each $1.50

COMMON—White or purple.

CHAS. SARGENT—Violet-mauve blended with sky-blue enormous flowers.

HIPPOLYTE MARINGER — Purplish-mauve, compact flowers, very free.

JEAN BART—Rosy-violet, buds carmine.

LILAC—Continued. Each 75c; Double, Ea. $1.50.

MAXIMOWICZ—Violet-heliotrope, reverse silvery, enormous flowers.

MISS ELLEN WILLMOTT—Snow-white, elegant spikes, large flowers. Single. **Each $1.25.**

CHRISTOPHE COLOME—Light lilac, buds purple, very fine and large.

DR. BREITCHNEIDER—Purple in bud opening white late.

NIGRICANS—Lilac, fine.

PERLE VON STUTTGART—Pure white.

MOCK ORANGES
(Syringa)

Large hardy shrub with a profusion of white creamy flowers, very fragrant. **Each 75c.**

PRUNUS
(Flowering Prune)

P. PISSARDI—Foliage and fruit red, covered in Spring with clouds of white flowers. **$1.00.**

P. BLIVIANS—Same as Pissardi in growth but flowers double pink. Most beautiful of all and very rare. **Each $2.00.**

P. VESUVIUS—Foliage comes out light green gradually getting darker until Fall, when it is blood red. Very showy fruit. **Each $1.50.**

QUINCE

JAPANESE FLOWERING QUINCE—Covered with bright scarlet flowers very early in the Spring before the leaves appear. **Each $1.00.**

RUSSIAN OLIVE

Large shrub with long narrow silvery foliage. Flowers yellow, appearing in May, followed by yellow berries. **Each $1.00.**

SPIRAEIS. Each 60c

SPIRAEA THUNBERGII—Charming spiraea with graceful form and abundant blooms.

BILLARD'S—(S. Billardi)—Flowers red in dense spikes, blooms most of Summer. **60c.**

VAN HOUTTE'S BRIDAL WREATHS—(S. Vanhouetti)—Very graceful; flowers white in round clusters. May. **Each 60c.**

CRIMSON—Anthony Waterer—**(S. Bumalda)**—A most desirable variety, having deep red flowers, blooming all Summer; fine for foreground planting. **Each 60c.**

JAPANESE — (S. Callosa) — Purplish foliage while young, flowers rosy pink in July. **60c.**

BLUE SPIRAEA—Beautiful Autumn blooming shrub. Flowers bright blue the entire length of stems. **Each 75c.**

SNOWBALL

COMMON—Flowers globular, pure white, in May. **3 to 4 feet, each 60c; 10 $5.00.**

TAMARIX

JUNIPERINA—(Africana)—Ornamental tree with soft, juniper-like leaves, pink flowers. **3 feet, each $1.50.**

WEIGELIA
Each 75c.

CANDIDA—Flowers white, bush tall.

ROSEA—Flowers light pink, shrub compact.

EVA RATHKE—Flowers red, one of the best.

VARIEGATED—Leaves become silver white.

EVERGREEN SHRUBS

AZALEA

CRIMSON—(A. Hinodegri) (Asahi)—Evergreen variety from Japan, bright minute, waxy foliage that turns garnet in Winter. Loaded in early Spring with masses of scarlet flowers which almost cover the plant. **Choice plants, each $2.00.**

ABELIA

ABELIA GRANDIFORA—Graceful evergreen shrub with small glossy leaves and tubular shaped flowers of a blush pink color. One of the few late Summer, early Fall blooming shrubs. **Each $1.50.**

ACUBA
(Japanese Laurel)

ACUBA JAPONICA—Variegated medium-sized shrub, with yellow spotted leaves. Has red berries after certain age. **Each $1.50.**

ACUBA JAPONICA—(Green)—Same as variegated, only leaves are dark glossy green, bearing fruit which stays on all Winter at age of two years. **Each $1.50.**

BARBERRY

BERBERIS DARWINI—Shrub with holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early Spring: desirable for hedges. **Each $1.00.**

B. WILSONI—(Wilson's Barberry)—A recent introduction from China. A dwarf shrub with small green leaves and long spines. Turns to red in the Fall. **Each $1.00 to $1.50.**

BERBERIS-VERICULOSIS—Similar to Darwini but far more brilliantly colored in the Fall. Very beautiful. Dwarf. **Each $1.25.**

BOXWOOD (Buxus)

PYRAMIDAL BOXWOOD—Cone shaped plant of great beauty. **2 to 2½ feet, each $4.00. 2½ to 3½ feet, each $5.00.**

GLOBE BOXWOOD—Trimmed in shape of a globe. **Each $2.00 to $4.00.**

BOXWOODS FOR HEDGES AND BORDERS—Write for prices on quantity desired.

CAMELLIA

CAMELLIA—Small trees with shining waxy leaves, and beautiful waxy flowers, very much resembling a small rose. We are only able to offer these in assorted colors. **1½ feet high, each $2.50.**

COTONEASTER

A very beautiful shrub, practically evergreen. They are hardy with fine cut leaves and showy red berries that stay on all Winter. They come in both bush or trailing shrub, and tall.

C. HORIZONTALIS—(Trailing Cotoneaster)—Low growing with horizontal branches, dark green leaves. Fruit red. **Each $1.00 to $1.50.**

C. MICROPHYLLA—Small leaved trailing form with minute green leaves. **Each $1.50.**

C. FRANCHETTI—A large sized shrub of graceful droopy habit, covered with a mass of red berries in Fall. **Each 75c and $1.50.**

C. SIMONSII—A pretty shrub of upright growth, bright leaves and white pinkish flowers, covered with large red berries all winter. Fine for massing. **Each 75c to $2.00.**

DAPHNE

Evergreen Japanese shrub with waxy light green foliage Pink and white flowers in early Spring that are well known for their wonderful fragrance. Well rooted out of 5-inch pots. No color guaranteed. **Each $2.00 to $3.50.**

HOLLY (Ilex)

ENGLISH—(Aquifolia)—Prickly, dark green foliage; grows moderately fast, covered during the Winter months with bright red berries. **Berry-bearing trees, each $3.50 up.**

LAURISTINUS

LAURISTINUS—Well known evergreen shrub, with dark green leaves. Flowers white tinted with pink, blooming in late Winter, early Spring. **Each $1.00 to $2.00.**

LAUREL

ENGLISH LAUREL—(Laurel Lauro-Cerasus)—A small tree or shrub with large handsome shining foliage during the entire year. Fine for hedges or specimen plants. **Each 75c to $2.00.** (Write for price on hedge plant size.)

LONICERA

NITIDA—(Evergreen Bush Honeysuckle)—New evergreen shrub, slender branches with bright glossy foliage. Excellent for massing or tub plant. **Each $1.00 to $1.50.**

OREGON GRAPE

OREGON GRAPE—(Mahonia Aquefolia)—Offical flower for the State of Oregon. Holly leaved Berberry. **Each $1.00 to $2.00.**

PORTUGAL LAUREL

PORTUGAL LAUREL—A very beautiful slow growing laurel but dark green glossy leaves, small but very compact. **15 in. to 18 in., each $1.00; 20 in. to 24 in., each $1.50.**

PRIVIT
(Ligustrum Ovalifolium)

GOLDEN PRIVIT—Beautiful variegated shrub used to plant in among evergreens, giving a wonderful effect. 2 ft. **Each $1.50.**

CALIFORNIA PRIVIT—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants. **18 to 24 in., 10 plants $1.00; $7.50 per 100. 24 to 30 in., 10 plants $1.25; $10.00 per 100.**

PYRACANTHA

EVERGREEN THORN—Tall growing shrub with long narrow green leaves, small white flowers, followed by orange scarlet berries that stay on all winter. There is no better shrub for the background. Very popular. We have both the orange scarlet and orange yellow berried plants. **Each $1.00 to $1.50.**

RHODODENDRON

GRAFTED VARIETIES—Very scarce. **Each $8.00. Seedlings, each $3.00.**

VERONICAS

Shrubs of compact growth forming well rounded specimens which can be used singly or in groups. Fine to use as borders or to place in front of taller growing species.

V. BUXIFOLIA—(Box Leaved Veronica)—A small shrub of upright growth, very compact. Small foliage, white flowers. **Ea. 75c to $1.25.**

V. CYPRESSOIZES—Globular shaped with numerous slender branches clothed with scale-like leaves which give it the appearance of cypress. Valuable in the shrubbery border. **Each 75c to $1.50.**

V. TRAVERSI—Upright growing variety. One of the hardiest. Bears white flowers during early Summer. **Each $1.00 to $1.50.**

DECIDUOUS TREES

ASH

AMERICAN WHITE—Broad, round head and dense foliage. Very fine. **Each $1.50.**

BIRCH (Betula)

CUT LEAF (B. Alba.)—Silvery white bark, slender drooping branches. **Each $3.00.**

CATALPA

Splendid trees, white flowers, bright foliage.

CATALPA WESTERN (Speciosa)—Very rapid grower; a quick shade. **7 to 8 ft., each $1.50.**

CATALPA BUNGEI—Dwarf dense rounded headed variety, much in outline like the Popular Bay Trees, but is hardy and better adapted for garden. **6 to 8 ft., each $3.00.**

DOGWOOD (Cornus Florida)

WHITE FLOWERING—Flowers white, 3 inches in diameter, blooming before leaves come in spring. **Price, 4 to 5 ft., each $1.50; 10, $12.00.**

ELM

AMERICAN WHITE—A magnificent tree with drooping branches. **7 to 8 ft., $1.50; 10, $15.00.**

ENGLISH ELM—A rapid grower, standing erect and compact, dark green. **Each $1.50.**

HAWTHORNE

PAUL'S DOUBLE SCARLET (C. Monogyna Pauli)—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. **Each $2.50.**

DOUBLE WHITE (C. Monogyna Alba Plena)—Flowers small. Leaves lustrous green. **$2.50.**

HORSE CHESTNUT (Aesculus)

WHITE FLOWERING (A. Hippocastanum)—Foliage showy, flowers stand in upright panicles. **Each $1.50.**

LABURNUM (Golden Chain)

LABURNUM (L. Vulgari)—A beautiful small growing tree, with long, drooping racemes of fragrant yellow flowers. **Each $1.50.**

LINDEN (Tilia)

AMERICAN (T. Americana)—Shapely and handsome; foliage large. **Each $1.50.**

EUROPEAN (T. Europea)—Similar to American. Leaf smaller. **Each $1.50.**

LOCUST (Robinia)

BLACK (R. Pseudacacia)—Rapid grower; fine for street planting. **Each $1.50.**

HONEY LOCUST—**Each $1.50.**

MAPLE (Acer)

OREGON SOFT (A. Macrophyllum)—A rapid grower, fine for avenues. **Each $1.50.**

NORWAY (A. Platanoides)—Large, growth compact; foliage deep green. Handsome. **9 to 10 feet, each $1.50.**

MAPLE (A. Platanoides Schwedleri)—Purple Leaf Maple. Variety Norway Maple. Young leaves are deep purple. As summer advances changes to green. **6 to 8 feet, $3.00 each.**

MOUNTAIN ASH (Sorbus)

EUROPEAN—(S. Aucuparia)—White flowers, then beautiful red berries. **Each $1.50.**

AMERICAN—(S. Americana)—Very ornamental, handsome foliage turning orange red in the Fall. Red berries remain on the tree most of the Winter. **Each $1.50.**

OAK (Quercus)

OAK PIN—(Q. Palustris)—This Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply pinnated foliage. **Each $2.00.**

OAK RED—(Q. Rubra)—Ideal for lawn or street. **Each $2.00.**

POPLAR (Populus)

6 to 8 feet, $1.50; 8 to 10 feet, $2.00.

BOLLE'S SILVER—(P. Alba Bolleana)—A compact upright grower, foliage glossy.

LOMBARDY—(P. Nigra Fastigiata)—An erect rapid grower.

SYCAMORE or PLANE (Platanus)

Erect growing tree with mottled trunk. Foliage bright green. **Each $1.50.**

VARIEGATED BOX LEAF ELDER—The finest variegated tree of the hardy kinds, leaves almost pure white. Nothing finer for specimen planting 4 to 6 feet. **Each $3.00.**

WEEPING WILLOW (Salix)

WISCONSIN—(S. Babylonica dolorosa)—Large glossy leaves, pendulous habit. **Each $1.50.**

AMERICAN—(S. Babylonica)—The well-known common weeping willow. **Each $1.50.**

CONIFEROUS EVERGREENS

ARBOR VITAE (Thuya)

AMERICAN (T. Occidentalis)—Native, known as cedar. Foliage bright green; yellow-green underneath; bronze in Winter. **Each $1.50.**

PYRAMID ARBORVITAE—THUYA LOBBI—Bright green leaves above and dark glossy green leaves beneath. An excellent tree for pyramid forms. **2 to 2½ feet, each $3.00.**

CEDAR (Cedrus)

DEODAR or INDIAN CEDAR (C. Deodara)—Very handsome; branches drooping; foliage silvery green. Very popular. **Each $2.50.**

RED CEDAR (Juniperus Virginia)—Native with striking form and color. **Each $2.50.**

CYPRESS (Cypressus)
NEW VARIETIES

ALUMII—Handsome pyramid shaped conifer. Foliage greenish-blue. **Each $3.00.**

CYPRESS LAWSON'S (Chamaecyparis Lawsoniana)—Graceful and conspicuous; branches horizontal, slightly pendulous, foliage dark green. **Each $1.50 to $5.00.**

ITALIAN—Bright green. Very compact in growth, nothing finer in upright type. **2 to 3 ft., each $2.50; 3 to 4 ft., each $3.00.**

CRYPTOMERIA

CRYPTOMERIA ELEGANS (Japanese Cedar)—A beautiful evergreen with delicate green foliage, and graceful habit. Color changing to reddish-brown. **2 to 2½ feet, each $3.50.**

CRYPTOMERIA (Japonica)—The open branched tree type of Cryptomeria, resembling somewhat the Sequoia Gigantea, but of slower growth. **2 to 3 feet, each $2.50.**

FIR (Abies)

NORMAN'S (A. Normanniana)—Lustrous, green foliage; very symmetrical. **Each $3.00.**

JUNIPER (Juniperus)

IRISH (J. Communis hibernica)—Pyramidal in form. foliage silvery gray. Very striking. **2 to 3 feet, each $3.00.**

COMMON (J. Communis)—Branches spreading. Fine trees. **2½ to 3 feet, $3.00.**

RETINOSPORA

PLUMOSA AUREA—Same as R. Plumosa but golden. **Each $4.00.**

SQUARROSA—Dense, compact. Foliage with feathery branches. Light bluish green. **$3.00.**

SPRUCE (Picae)

NORWAY (P. Excelsa)—A lofty, rapid grower; branches drooping. Fine for hedge or windbreak. **2 to 3 feet, Each $3.00.**

FRUIT TREES

IN THE PURCHASE of fruit stocks great care should be given to the selection of varieties that will meet your conditions and requirements, as many that thrive and bear abundantly in one section often prove disappointing under variable conditions. Also many splendid sorts for home use are totally unsuited for profitable marketing. For this reason we offer a large assortment of improved varieties carefully tested and selected for their special merits and their adaptability to varying conditions, and if you will state whether you intend growing for distant or local market or for home use, giving location and general conditions, we can recommend or assist in the selection of those varieties that will give you the best results.

If trees are frozen in transit, do not unpack, but set away in a cool cellar and allow them to thaw gradually. Trees or roses that are dried out and shriveled should be buried, tops and all, in moist earth for a few days. This will restore them.

Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

APPLES

This is a good year to plant Apple trees. The standards of production and markets are well established, making an apple orchard a safe investment. Write for quotations on large orders.

	Each	Per 10	Per 100	
First Grade, 2 years	$0.75	$6.00	$45.00	F. O. B. Portland; if mailed, postage extra.
First Grade, 4 to 5 feet	.50	4.00	35.00	
First Grade, 1 year, 3 to 4 feet	.40	3.50	30.00	

SUMMER VARIETIES

EARLY HARVEST—Medium size; bright straw color; tender and fine, good for table and cooking. July.

GRAVENSTEIN — Large, beautifully dashed with deep red and orange, aromatic flavor; tree very vigorous. August.

RED ASTRACHAN—Large, deep crimson, flesh white, moderately juicy, agreeable rich acid flavor; very productive. August.

YELLOW TRANSPARENT—Medium size, roundish, slightly conical; skin pale yellow; flesh tender, juicy, sub-acid; good; bears at an early age. July.

AUTUMN and WINTER VARIETIES

BALDWIN—Large, rounded; deep, bright red; very productive; crisp, fine flavor; one of the best and most popular winter apples. November to Febuary.

DELICIOUS—Fruit equals name in every respect. Fine for market and home, especially adapted to Eastern Oregon and Washington. Keeps till April.

GRIMES GOLDEN—Very popular. Rich golden yellow; flesh tender, juicy and rich. Tree hardy and vigorous, bearing young. November to December.

JONATHAN—Tree vigorous, long lived and an early bearer. Fruit beautiful red and oblong; fine quality. Valuable as a pollenizer with Spitzenberg and Newtown. October to January.

NORTHERN SPY—Large, round, greenish yellow, stripes of purplish-red; flesh white, juicy, brisk sub-acid; valuable for "top work." Requires good soil. December.

ORTLEY or WHITE BELLFLOWER—White fleshed, fine grained conical fruit of superior flavor. December to April.

SPITZENBERG — Large, oblong; yellowish with broken stripes of bright red; flesh yellowish, juicy. November to March.

WEALTHY—Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy. October.

WINTER BANANA—Fancy market fruit; pale yellow with pink blush. November.

YELLOW BELLFLOWER—Large, oblong, yellow; flesh firm, crisp, juicy, sub-acid. October to January.

YELLOW NEWTOWN PIPPIN—Large; skin smooth, golden yellow; flesh firm, juicy. December to May.

CRAB VARIETIES

FLORENCE—Red striped; early, juicy and crisp; fine for home gardens. September 1.

RED SIBERIAN — Yellow with scarlet cheek. Bears young and abundantly. September.

TRANSCENDENT — Very large, good for cider; yellow striped red. Adapted to Montana. September.

APRICOTS

4 to 5 feet, 75c each, $6.50 per 10, $50.00 per 100
F. O. B. Portland; postage extra if mailed.

THE LEWIS—Best flavored, perfectly hardy. Grown extensively in the Goodnoe Hills district. July, August.

MOOSPARK — Large, yellowish green, flesh bright orange; for canning and drying; freestone. July, August.

ROYAL — Above medium size; sweet, rich, juicy; good dryer and canner. July.

TILTON—Large; rich color, high flavor; very productive; similar to Royal; later. July.

BLENHEIM—Deep orange, sometimes blushed, tender, rich and juicy. Tree vigorous. Good for Pacific Coast. Last of June.

CHERRIES

First Year, 4 to 6 ft., $1.00 each, $9.00 per 10, $75.00 per 100
F. O. B. Portland; postage extra if mailed.

BING — Large, dark brown or black; very fine; late; good shipping. July.

BLACK REPUBLICAN (Lewelling)—Large, black sweet, purplish flesh; late; good shipper. June.

KENTISH (Early Richmond)—Dark, red, juicy; sour, for cooking purposes. Mid-May.

LATE DUKE—Large, light red, late and excellent, sub-acid. Late July.

LAMBERT—Largest size, color deep rich red; flesh firm, fine flavor. July.

MAY DUKE—Large, rich, dark red; sub-acid. May.

ROYAL ANN (Napoleon Bigarreau)—A magnificent cherry of the largest size; pale yellow, with a bright red cheek; flesh firm, juicy and sweet; tree a rapid grower and immense bearer. July 1.

NECTARINES

4 to 5 ft., 75c each, $6.50 per 10, $50.00 per 100
F. O. B. Portland; postage extra if mailed.

BOSTON—Large, deep yellow, bright blush; flesh yellow. Best for Oregon. August 1.

EARLY VIOLET—Medium; skin pale, shaded violet; flesh white; good. July.

PEACHES

4 to 5 ft., 75c each, $6.50 per 10, $50.00 per 100
F. O. B. Portland; postage extra if mailed.

EARLY ALEXANDER—One of the largest early varieties. Almost freestone. July.

EARLY CRAWFORD—Large, yellow, red cheek; freestone, Aug.

ELBERTA—Large bright yellow, red cheek; juicy, sweet; freestone. Late July.

LATE CRAWFORD—Large, yellow, dark red, juicy; freestone; canning and drying. September.

HALE'S EARLY—Early, free; extra quality.

MAYFLOWER—Red all over; extremely early. Last of June. Freestone.

MUIR—Large, pale yellow; firm and sweet; best for drying; freestone. August.

SALWAY—Creamy yellow, red cheek. Freestone. Late September.

TUSCAN CLING—Very large; yellow, blushed red. July, August.

PEARS

	Each	Per 10	Per 100	
First Grade, 2 years, 4 to 6 ft.	$1.00	$8.50	$75.00	F. O. B. Portland; if mailed, postage extra.
First Grade, 1 year, 4 to 6 feet	.75	6.50	60.00	

AUTUMN VARIETIES

BARTLETT—Large; skin thin, clear, lemon yellow, with soft blush; flesh white, buttery, juicy and highly flavored; best summer pear in existence. August, September.

BEURRE BOSC—Large, beautiful, russety; highly flavored; fine for shipping. September.

BEURRE D'ANJOU—Large, fine flavor; keeps till Christmas. September.

COMICE—A splendid commercial variety; ships well. October

FALL BUTTER—Yellow, sweet and juicy. September.

FLEMISH BEAUTY—Large, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest.

SECKEL—Rich highly flavored; skin brownish green, russet brown cheek. September, October.

WINTER VARIETIES

P. BARRY—Fine keeper. Large, yellow. December, March.

WINTER BARTLETT—Undoubtedly one of the few pears of recent introduction of real merit.

WINTER NELLIS—Medium; skin yellowish green; flesh yellowish white; fine grained. December.

PLUMS

	Each	Per 10	Per 100	
1 year, 4 to 6 ft.	$0.40	$3.50	$30.00	Portland. postage extra.
2 year, 4 to 6 ft.	1.00	8.00	70.00	

BRADSHAW—Reddish purple, adheres partially to the stone. July.

COLUMBIA—Largest size, brownish purple; freestone. August.

PEACH—Very large; skin brownish red; freestone. July.

DAMSON—SHROPSHIRE — Dark purple; very firm; flesh greenish. Late September.

GREEN GAGE—Freestone. Mid-July.

MAYNARD—Dull red, rich and sweet; sturdy, quick-growing, heavy-yielding; ripens in July.

COE'S GOLDEN DROP—Large; light yellow. Late September.

DAMSON—Small, bluish purple; rather tart. Trees fruitful and hardy. August.

YELLOW EGG—Very large; deep golden, rather acid; excellent for cooking; very showy. August.

PRINLEW PLUM — Best large Plum for fruit market. Good shipper. Each $1.00; 10, $8.50.

SATSUMA (Blood Plum)—Large, dark red from skin to pit, tree productive. Early July.

WASHINGTON—Large, skin dull yellow, crimson blush; flesh firm; sweet and luscious; freestone. Early August.

PRUNES

	Each	Per 10	Per 100	
First Grade, 2 years	$1.00	$8.00	$70.00	F. O. B. Portland; if mailed, postage extra.
First Grade, 1 year, 6 to 8 feet	.75	6.00	55.00	
First Grade, 1 year, 4 to 6 feet	.40	3.00	25.00	
First Grade, 1 year, 3 to 4 feet	.30	2.50	20.00	

GIANT—Largest prune known; averaging 1½ to 2 ounces each.

HUNGARIAN—Very large; dark red, juicy and sweet; good shipper. August.

ITALIAN (Fellenberg) — Large, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. August.

PACIFIC — Large, sweet; same color as Italian. Good canner or to eat raw. Early August.

PETITE (French)—Medium, egg shaped; violet purple; sweet rich and sugary; very productive; standard variety for drying. August.

QUINCE

PRICES: First Grade, 2 years. Each 75c; 10, $6.50.
Postage Extra if Mailed

APPLE OR ORANGE — Well known standard variety; early; large, golden yellow; good for preserving or flavoring. September.

CHAMPION—Large, yellow; cooks very tender; delicious. October.

PINEAPPLE—Flavor is suggestive of pinapple; resembles the Orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor. September.

NUT TREES

ALMOND (Nut Bearing)

Almonds can be grown successfully in many sections of Oregon and Washington. We can supply most of the leading varieties at price listed. Special prices on large orders. **3 to 5 ft., each 75c; 10, $6.00; 100 $50.00**

I. X. L.—A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

NONPAREIL—Tree beautiful, slightly weeping; nut sweet and shell very thin. Best for the home.

BUTTERNUT

A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the Middle West. Succeeds fairly well in the Pacific States. **4 to 6 ft., each $1.50; 10, $12.50.**

FILBERTS

2 to 3 ft., each 75c; 10, $5.00

BARCELONA—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush.

DU CHILLY—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by ¾ of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollenizer for Barcelona.

WHITE AVELINE—This used with the Du Chilly considered best varieties for planting with Barcelona for pollenizer.

WALNUTS

Walnuts are a sure and profitable crop on the Pacific Coast, and we also urge their planting for shade and ornamental purposes. They grow rapidly, are free from pests, and are handsome and lasting. Only grafted trees should be planted as they yield heavier, the nuts are of better quality and most uniform.

GRAFTED WALNUTS

FRANQUETTES—We offer a splendid strain grafted on four-year California Black Walnut sturdy, thrifty trees with big fibrous roots. The best to plant. Comes to bearing much younger than seedling walnut. **Prices, F. O. B. Portland—3 to 4 ft., each $1.50; 4 to 5 ft., each $2.00; 5 to 6 ft., each $2.50. Cannot be mailed.**

PAYNES

PAYNES—It is one of the best bearers of all the different varieties. The description is similar to the Franquette. This variety must be kept heavily pruned or it will overbear and the tree will become stunted. **4 ft. up, each $2.50. F. O. B. Portland.**

SEEDLING WALNUTS

FRANQUETTE AND MAYETTE—Second generation, soft shell, selected stock. Trees hardy and prolific bearers. Nuts are rich and meaty. **Each $1.00.**

CALIFORNIA BLACK—A rapid grower and very desirable; nut medium size, with hard, smooth shell. Adapts itself easily to different climates. **Each $1.75.**

CURRANTS

Currants are a profitable, easily grown crop, and the market is always good.

PRICES; Each 25c; 10 $2.00; 100 $12.50. F. O. B. Portland, postage extra.

PERFECTION—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid.

CHERRY—Very large; deep red; fine for preserving; valuable market variety.

FAY'S PROLIFIC—Bright red, very sweet, fruit hangs on better than most varieties.

WHITE TRANSPARENT—The best white currant known. Splendid market variety; rich flavor; mild sub-acid.

Account Federal quarantine cannot be transported in States of Washington and California.

GOOSEBERRIES

PRICES: Each 25c; per 10 $2.00; per 100 $12.00; F. O. B. Portland.

Federal Quarantine prevents a shipment of Gooseberries into the States of Washington and California.

OREGON CHAMPION—Berries very large; pale green; sweet, fine, bush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

GRAPES

PRICES, except where noted: Write for prices in quantity. 2-year plants, not prepaid, postpaid extra. Each $0.25; per 10 $2.00; per 100 $18.00.

CAMPBELL'S EARLY—Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slight vinous; a strong and vigorous grower. August.

MOORE'S EARLY—Bunch medium; berry large, resembling Concord, but more pulp and is earlier.

CONCORD—Large, black grape; bunches compact; berries round, sweet and pleasant. August.

DELAWARE—One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, bright red. August.

NIAGARA—Bunch medium; berry large roundish, uniform; skin thin but rough; pale yellow flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.

WORDEN—Bunch very large and compact; berry large, black; an improved Concord. Late August.

LUCILE—A good medium to large red grape. Very hardy.

WRITE for information on the control of GRAPE MILDEW with Sulphur.

BLACKBERRIES

PRICES, not prepaid, 1 year: Each 20c; 10 $1.75; 100 $15.00.

HIMALAYA GIANT (Evergreen)—An exceedingly strong rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

ELDORADO—A valuable new variety; fruit large, jet black, melting, sweet and rich; hardy and very productive; fine for Oregon.

LAWTON—Fruit large; very productive; well and favorably known; Oregon's most popular kind.

THORNLESS MAMMOTH BLACKBERRY (Cory)—It is a strong, vigorous grower; bears prolific; the canes grow thick and stout until 5 or 6 feet, when they take the trailing habit, at which time they should be trellised. It has a delicious flavor of its own, somewhat resembling the wild California blackberry. It is self-fertilizing—never been known to fail to bear.

Another very important feature is that it is almost seedless.

Tips—Spring del. only, each 20c; 100 $12.00.

1-year transplanted, each 25c; 100 $20.00

RASPBERRIES

RASPBERRIES (Black Caps)

PRICES: Not prepaid, 2 years— Each 25c; 10, $2.25; 100, $20.00; 1 year—Each 20c; 10 $1.50; 100 $12.50.

GREGG—Good size, fine quality; productive and hardy.

PLUM FARMER—Large black, hardy and productive.

RASPBERRIES (Red Caps)

PRICES: Not prepaid, 1 year—Each 10c; 10 75c; 100 $2.50.

CUTHBERT—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

MARBORO—Standard, light crimson, large, very firm; good commercial variety; ripens early.

LOGANBERRY

Larger than the blackberry, dark red; immense clusters. Partakes of the flavor of both blackberry and raspberry. June.

PRICES: not prepaid—Large, well-rooted plants: Two-year-old, each 25c; 10 for $2.25; 100 for $20.00. One-year-old, each 20c; 10 for $2.00; 100 for $15.00.

Diamond Quality Strawberry Plants

FOR IMMEDIATE DELIVERY

DIAMOND Quality Strawberry Plants are large, vigorous and healthy. They are heavily rooted, have large, full crowns; have been carefully grown and are free from disease and pests. We dig as ordered and pack for shipment in ventilated crates of 1,000 plants each. **They are grown from our select strains and are always true to name; no substitution is ever allowed** without instructions from the purchaser.

Our select strains of **New Oregon, Gold Dollar, Magoon.**

All our plants are officially inspected in the field by the State Horticultural officers and by our own inspectors.

NEW OREGON

Our own Introduction.

PRICES: $8.50 per 1000. F. O. B. Portland. Best, Most Uniform and Heaviest Yielding Main Crop Strawberry

"NEW OREGON" is large, firm and of fine form, averaging 15 to the quart box; color a brilliant, deep, rich red, having a glossy varnished appearance when fully ripe. This dark blood red coloring extends through to the very center, and, no matter how large, "NEW OREGON" is never hollow. When fully ripe the distinctive flavor is suggestive of the wild berry, is crisp and delicious, and will remain on the vine for three days without injury, keeping perfectly for many days after picking; stands handling and long shipments and will hold its color, shape and flavor when canned. "NEW OREGON" is an early bearer, being ready for marketing the first half of May in the Willamette Valley and holds up in size and quality throughout the season, which in some localities extends until frost.

STANDARD VARIETIES OF STRAWBERRIES

GOLD DOLLAR (Extra Early)—Gold Dollar berries are large size, dark red all through and have fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Gold Dollar Strawberries are the standard early berry in the big markets of the Northwest and are always in demand.

MAGOON—Berry large, fine and of excellent sub-acid flavors; bears heavily; especially adapted to Western Oregon and Washington.

PRICES:—All varieties except Fall Bearing.

Prepaid; 1 doz., 30c; 25, 50c; 100, $1.50. Not Prepaid; 25, 40c; 100, $1.00; 1000, $8.00.

Not less than 500 plants of a kind at 1000 rate. Special prices on 3000 or more.

FALL OR EVERBEARING STRAWBERRIES

Fall bearing Strawberries, also known as "Everbearing," are very satisfactory for home gardens and under some conditions will prove profitable commercially, but require special care and attention to secure best results as the late fruit will be small and yield less if the blossoms are not removed and the plants are allowed to fruit early and continuously. When properly grown they are of splendid quality and yield heavily until frost.

PROGRESSIVE—Rich, red color, firm and of delicious flavor. Good keepers and shippers. Blossoms should be cut back about 4 weeks before the berries are wanted. We consider this the best of its class.

PRICES: Postpaid, per doz., 60c; 25 plants, 75c; 100 plants, $2.00. Not prepaid, per doz., 30c; 25 plants, 50c; 100 plants, $1.75; 1000 plants $12.50.

RHUBARB

PANAMA RHUBARB

An everbearing rhubarb, growing continuously throughout the year, both summer and winter. Frost will not kill it, and in the absence of frost makes its best and most profitable growth during the winter. In size it is more than twice the size, stalks are much heavier and larger, full grown stems often being three feet long and weighing two pounds.

The flavor is of the plum type, Panama rhubarb pie or sauce is so far superior to others, that comparison is out of the question. Comparatively free from acid, requires less than half the amount of sugar ordinarily used, and should not be peeled. All the roots are what is known as subdivisions.

CULTURE—Plant not more than one-half inch below surface of ground, and water immediately after. Keep ground well cultivated close to plant within two feet from the plant. During first two months irrigate once a week and cultivate after each irrigation. Plant from three to four feet apart in the row, and have rows from four to five feet apart.

PRICE—Each 35c; dozen, postpaid, $3.75; per 100 F. O. B. Portland, $30.

RIVERSIDE GIANT RHUBARB

RIVERSIDE GIANT has stood the test of time, being crisp, tender, free from stringiness with a good color and a delicous, distinctive flavor. The skin is so thin it disappears in cooking. Riverside Giant has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Cuttings begin in March and usually four are made, the last one in July.

PRICE—Each, 15c; doz. $1.50; $7.50 per 100. Special prices on large lots.

Don't plant rhubarb along a fence, near trees or other crops. Give plenty of room. Write for cultural directions.

ASPARAGUS

GROW GIANT WASHINGTON PEDIGREED ASPARAGUS

The Best in the World

Asparagus fields have been affected in the past years with rust and other diseases, and the U. S. Dept. of Agriculture has devoted painstaking work in combating these diseases. The Washington asparagus owes its origin, to efforts to combat the rust and other diseases. It is our firm belief that growers in this section, and other asparagus growing sections, will find it greatly to their advantage to plant the Washington Pedigreed Asparagus.

The U. S. government in its experiments developed the new varieties of Washington, Mary Washington, and Martha Washington Asparagus as showing the best results. Our grower of Giant Washington Asparagus seed under the supervision of the U. S. government has produced the superior asparagus we are listing under the name, "Giant Washington." This was produced by breeding the female plants, Martha and Mary to the male plant Washington, resulting in producing the plant, "Giant Washington," which combines all the best characteristics of the three. This seed is grown especially for us, and our plants are all grown from this seed by one of our best growers. **Be sure to get the genuine.**

A common planting is in rows 5 feet apart, 15 inches apart in the row, about 7,000 plants to the acre.

PRICE: No. 1 (Formerly listed 2-year) plants, postpaid; per doz., 50c; per 50, $1.00; per 100, $1.50. By express or freight, not prepaid, per 50, 90c; per 100, $1.25; per 1,000, $8.00. Write for quantity prices.

PRICE: No. 2 (Formerly listed 1-year) plants, postpaid, per doz., 40c; per 50, 75c; per 100, $1.25; By express or freight, not prepaid, per 50, 60c; per 100, $1.00; per 1,000, $6.00.

PALMETTO

The favorite green asparagus. Extra early and the uniformly large stalks remain tender, being in prime condition for some days after coming above the ground. Plametto is a heavy, sure cropper.

ONE-YEAR-OLD PLANTS — Postpaid, 30c. dozen, 65c per 50, $1.15 per 100. By express or freight, 25c dozen; 50c per 50; 75c per 100; $6.00 per 1,000.

TWO-YEAR-OLD PLANTS—Postpaid, 40c per dozen; $1.00 per 50; $1.50 per 100. By express or freight, 30c per dozen; 75c per 50; $1.00 per 100; $8.00 per 1,000.

VEGETABLE PLANTS

CABBAGE—Transplanted and "pulled" plants in all standard varieties. Early and late at seasonable times.

Prices:	Postpaid Doz.	Postpaid 100	Not Prep'd 100	Not Prep'd 1000
Transplanted	$0.25	$1.25	$1.00	$8.00
Not transplanted	.15	1.00	.75	6.00

KALE—When you order Kale be sure to state whether you want the Garden Kale or the "Cow" Kale.

Prices:	Postpaid Doz.	Postpaid 100	Not Prep'd 100	Not Prep'd 1000
Thousand Head or "Cow Kale"	$0.20	$1.25	$1.00	$6.00
Garden or Curley Kale	.25	1.50	1.25	10.00

Special prices on large lots in season.

BROCCOLI—Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a Winter cauliflower very hardy. Plants can be set after June and are ready to use in March.

Prices:	Postpaid Doz.	Postpaid 100	Not Prep'd 100	Not Prep'd 1000
Broccoli	$0.30	$1.50	$1.25	$12.00

Write for prices on large lots.

SWEET POTATO PLANTS — The plants should be set out after the ground is warm. Rich, sandy bottom land is best, but any good garden soil. **Prices, for seasonable delivery, postpaid, doz. 35c; 100 $1.50; not prepaid, doz. 25c; 100 $1.25; 1000 $10.00.**

CAULIFLOWER—Cauliflower seed is scarce and high in some varieties and plant prices subject to change. **Prices, not prepaid, Early Varieties, transplanted, doz. 30c; 100 $1.75; 1000 $12.00. Not transplanted, 100 $1.25; 1000 $10.00.**

TOMATOES—Tomato plants should not be set out before the weather is settled and ground warm; unless they are protected from frost.

Prices:	Postpaid Doz.	Postpaid 100	Not Prep'd 100	Not Prep'd 1000
Transplanted	$0.30	$1.50	$1.25	$10.00

CELERY—Fine, healthy plants in early Winter varieties furnished in season or grown to order. **Prices, postpaid, transplanted, doz. 30c; 100, $1.25. Not prepaid, 100, $1.00; 1000 $8.50.**

HOP ROOTS

Oregon's Famous English Cluster Hops. Regular Root Cuttings, 10c each; 3 for 25c; 75c doz.; $4.00 per 100, postpaid.

HORSERADISH ROOTS

Plant in the spring 18 by 24 inches apart. Set the whole root small end down.

Prices: 2 for 15c; 50c per doz.; $2.00 per 100. Low prices by the 1,000.

SPRAY CALENDAR—WHEN TO SPRAY, WHAT TO USE

Insect or Disease	Plant Attacked	What to Spray With	First Spraying
Codling Moth	Apple, Pear	Arsenate of Lead	Just before calyx cups close.
San Jose Scale		Scalecide, Standard Sulphur Lime Solution	Whean leaves are off the trees.
Oyster Shell Bark Louse	Apple, mainly	Standard Sulphur-Lime Solution	When leaves are off the trees.
Peach, Moth or Twig Borer	Peach	Scalecide, 1 part to 20 parts water	When the insects appear.
Woolly Aphis	Apple	Scalecide, 1 part to 40 parts water	When the insects appear.
Aphis	Roses and plants	Aphiscide, Nicoticide	Just as soon as the insects appear.
Cabbage Worm	Cabbage	Bug Death (non-poisonous)	Before the worms eat into the cabbage.
Cabbage Aphis	Cabbage	Scalecide, 1 part to 40 parts water	When the insects appear.
Slug	Pear, Cherry, Peas	Slug Shot or Bug Death	
Thrips	Roses	Thrip, Juice, or Aphiscide	When the insects appear.
Cottony Scale	Pear, Currant	Scalecide, 1 part to 40 parts water	When the insects become cottony (May).
Scab	Apple, Pear	Bordeaux	Just before blossoms open.
Blackspot Canker	Apple	Bordeaux, double strength	Immediately after leaves fall.
Leaf Curl	Peach	Standard Sulphur-Lime Solution	Before buds burst.
Mildew	Gooseberry	Potassium Sulphide, 1 oz. to 2 gallons water	Just as buds burst.

Caution Against Spraying When Trees are in Full Bloom—Spraying when trees are in bloom may destroy bees and other insects necessary to pollinate, and these natural agents should not be interfered with as their work of transferring the pollen insures beautiful crops and shapely fruit.

USE DIAMOND VEGETABLE FERTILIZER

Our Book "FERTILIZERS" tells how to profitably use Fertilizer. Tells what you should get for your money when you buy Fertilizers—a book every grower should have and is FREE FOR THE ASKING.

MISCELLANEOUS FLORISTS' SUPPLIES

FLORISTS AND NURSERYMEN WRITE FOR SPECIAL PRICE LIST OF SULPHUR

Round Plant Stakes

PAINTED GREEN

Length 3	feet, dozen	$0.65
Length 3½	feet, dozen	.75
Length 4	feet, dozen	1.00
Length 4½	feet, dozen	1.35

Bamboo Plant Stakes

Just the Thing for Greenhouse Use

24x¼	inch per 100	$1.00
30x¼	inch per 100	1.15
86x⅜	inch per 100	1.25
48x⅜	inch per 100	2.00

F. O. B. Portland

Wooden Pot Labels

PAINTED WHITE

4-inch—per 1,000, wt. pkd. 4 lbs.	$2.00
5-inch—per 1,000, wt. pkd. 6 lbs.	2.50
6-inch—per 1,000, wt. pkd. 9 lbs.	2.90
8-inch—per 100 90c; 1,000	7.00

Tree Labels

PAINTED COPPER WIRE

Per 100 40c; 1,000 $3.00

WIRE HANGING BASKETS—10 in. 25c; 12 in. 30c; 14 in. 40c. Special Quantity Prices.

WIRED TOOTH PICKS—2½ in. long.

WIRED MATCH STICKS—3, 4 and 6 inches long.

Our line of Chiffons, Ribbons, Cords, Wire Designs, Foil, Baskets and general Florist Supplies stock is very complete.

VITAPLASTIC

Glazing Compound—The best, most dependable glazing material. Never hardens or cracks. Write for circular. **Price: Gal. $2.00; 5 gals. $9.25; 20 gals. $35.00.**

VITAPLASTIC Machine—Price $5.00.

GLAZING POINTS—(Peerless)—Best point made; 1,000 in box. Weight, 2 lbs. **Price 75c.**

Raffia

In ordering Raffia by mail, be sure to add postage on 1 lb. or more.

RAFFIA—Natural color. **Price, ¼ lb. 15c; postpaid 20c; not postpaid, lb. 30c.**

COLORED RAFFIA—Any shade, the popular colors being red, yellow, orange, black, blue and purple. **Per pkg., postpaid, 25c; per lb. $1.50.**

WIRE—Cut and uncut. Sizes 18, 20, 22, 24. Cut in 12-lb. boxes, and uncut in 12-lb. coils.

WIRE DESIGNS—For Florists; Anchors, Bases, Broken Columns, Broken Wheel, Crescent, Crescent Wreaths, Crosses, Odd Fellows' Pillows, Shower Wreaths, Shields, Stars, Triangles, Wreaths Flat. Tell us what you want, and we will supply it.

BULL DOG CLIPS—If once used, always used.

Cut Flower Boxes

We can supply Cut Flower Boxes in the following sizes. Florists write for prices.

3 x21x5	5x28x 8	8x16x16
3½x24x5	5x36x 8	8x20x20
3½x30x5	6x40x10	8x24x24
4 x24x8	6x36x14	

Flower Pots

Florists, nurserymen and growers should send list of requirements for Special Prices.

BIRD'S NEPONSET WATERPROOF PAPER FLOWER POTS

These pots can be used over and over for transplanting and similar use. In fact, the pots can be used in every way that earthen pots can. Ideal for transplanting and shipping potted plants. Cost less. No breakage. Hold moisture better. Their use is increasing. Why not try them?

PRICES PER THOUSAND F. O. B. PORTLAND (Wholesale Only)

2 -inch	$4.20	3½-inch	$ 8.70
2½-inch	4.90	4 -inch	10.90
3 -inch	6.65	5 -inch	16.00

HEADQUARTERS FOR MAGNOLIA Leaves—Write for prices. We can save you money.

CYCAS LEAVES—Sizes 8x12, 12x16, 16x20, 20x24.

Porch Boxes, Japanese Tubs, Hanging Baskets, Lawn Vases, Potted Plants

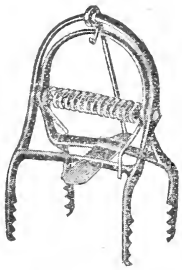
Specimen Ferns, Palms and Ornamental Plants furnished to order. We can assist you in securing special decorative effects for House or Garden. **Tell Us Your Plans—WE CAN SAVE YOU MONEY.**

ALL PRICES QUOTED ABOVE F. O. B. PORTLAND, unless otherwise stated. Subject to market changes.

PEST KILLERS

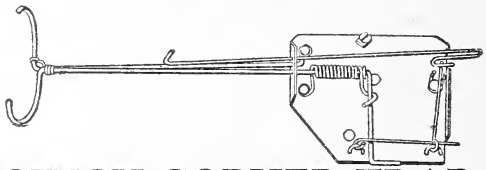
"WOOD-LARK"
TRADE MARK
SQUIRREL AND GOPHER POISON
QUICK, CERTAIN, DEADLY.

Exterminates Squirrels, Sage Rats, Field Mice, Pocket Gophers, Prairie Dogs, Crows. Use early when green food is scarce. **Price 1 lb. pkg. 60c.** (Cannot be mailed).



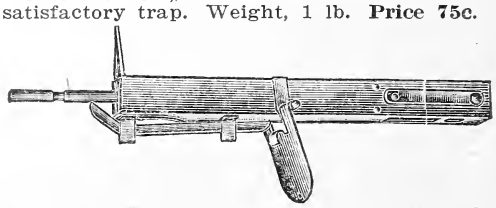
Out O'Sight Mole Trap

One of the best. Sure to "get them." Weight, 2 lbs. **Price, $1.00.**



CINCH GOPHER TRAP

Fits the hole, a sure killer and the most satisfactory trap. Weight, 1 lb. **Price 75c.**



POISON GAS BALLS

FOR GOPHERS OR MOLES

For the extermination of Ground Squirrels, Gophers, Prairie Dogs and Moles.

SAFE—SURE—ECONOMICAL

Will not explode. Do not deteriorate. No danger to Live Stock, Domestic Fowls or Wild Game.

Hold the exterminator in mouth of squirrel's burrow, light the sharp edge with torch or match, after the ball is ignited and burning freely, roll it as far as possible into the burrow. Cover the hole with clod of dirt, then with enough fine dirt to seal tightly so that none of the gas fumes can escape. Throw no fine dirt on the burning ball. **Each 5c; doz. 50c; 100 $2.00. Postage extra.**

REDDICK MOLE TRAP

No Mole Can Pass Under It and Live

These traps are strong and durable and worth the price to anyone troubled by moles. Full directions with each trap. Weight, 3 lbs. **Price $1.25.**

Reddick

THE NEVER-FAIL GOPHER GUN AND BURGLAR ALARM

For the Positive Destruction of Gophers, Moles, Squirrels, Rats and Other Burrowing Pests

First—Dig opening in front of hole so that gun can be inserted in hole in position parallel to surface of ground. Then to load—open gun by tipping barrel pressing on same with thumb through oblong slot and insert 38 BLANK cartridge; close barrel.

For moles—Dig straight down where mole has thrown up mound and you will find hole. Mole may not come back the same day, but come he will.

Keep the gun clean and it will last a life time. **Price $2.00 each, postpaid.**

THE OFFICIAL RAT TRAP

The Government selected this trap from among thousands of models submitted. Spring releases with either upward or downward pressure—**Rats Nibble Upward. The "Official" always gets them.**

Official Rat Trap, weight, 1 lb. Each 20c.

Official Mouse Trap, weight, 4 oz. Each 5c.

DIAMOND FERTILIZERS

DIAMOND QUALITY Fertilizers are complete fertilizers of the highest grade and concentration. No inferior ingredients or cheap fillers are used in their preparation, Bone Meal and Tankage forming the base, to which is added the necessary Potash, Nitrogen and Phosphoric Acid. Each package is marked plainly, showing the percentage of available plant food.

SPECIAL FERTILIZER BOOKLET giving complete details and prices of the different fertilizers which we can supply, together with full information for their application, will be sent on request. This booklet is instructive, reliable and of great value to all interested in fertilizers.

FERTILIZERS IN SMALL GARDENS—Amateur garden makers are often puzzled as to the amount of fertilizer needed for their small plots, because the usual directions give only the amount per acre. The following table shows (approximately) the proper proportions:

100 lbs. per acre equals 1 lb. for a plot 10x43 ft. 300 lbs. per acre equals 1 lb. for a plot 10x14 ft.
200 lbs. per acre equals 1 lb. for a plot 10x21 ft. 400 lbs. per acre equals 1 lb. for a plot 10x11 ft.
500 lbs. per acre equals 1 lb. for a plot 10x9 ft.

Applied in quantities of 1,000 lbs. to a ton per acre, our fertilizers, with intelligent culture, will sustain and gradually improve the soil and increase the yield and quality of the product, even though the crop be entirely removed and no other manuring done. The roots, vines, stubble and whatever of weeds or waste there is, all assist in providing the necessary humus. A greater amount is often used to advantage by market gardeners. Complete instructions will be found in our Fertilizer Booklet, sent free. If there is any special information you require, write us; your inquiries will have our prompt and careful attention and our experience may help you.

DIAMOND PLANT FOOD

For Ferns, Palms and House Plants. Clean, Odorless, Highly Concentrated.

A complete, highly concentrated, powerful fertilizer, clean and odorless, wonderfully invigorating to all plants — producing luxuriant foliage and larger and more brilliant flowers.

A 40c package will feed a dozen large plants a whole year. Instructions on each package.

Price: ½ lb. pkg. 25c, by mail 35c; 1 lb. pkg. 40c, by mail 50c.

DIAMOND GENERAL and VEGETABLE—An all-round fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops. **10 lbs. 50c; 100 lbs. $2.60; ton, $50.00.**

DIAMOND FRUIT and ONION FERTILIZER — This fertilizer is also used for blackberries, raspberries, etc. We sell large quantities for growing the famous Hood River strawberries. **10 lbs. 50c; 100 lbs. $2.85; ton $55.00.**

DIAMOND ODORLESS LAWN and ROSE FERTILIZER—Promotes a vigorous, healthy growth, giving the desired dark rich green appearance; can be used at the time seed is planted and later as a top dressing. 100 lbs. is sufficient for an ordinary city lot, is far more effective and less objectionable than stable manure. Remember, it contains no weed seeds. When used as a top dressing it is best to make several light applications about two weeks apart.
10 lbs. 50c; 25 lbs. $1.00; 50 lbs. $1.65; 100 lbs. $3.00; ton $57.00.

BONE MEAL—Fine ground, is one of the best fertilizers. This is a very valuable enricher of the soil, and one of the most economical at present prices. **5 lbs. 30c; 10 lbs. 50c; 100 lbs. $2.50; ton $48.00.**

SHEEP GUANO—The best natural manure, dried and ground. Concentrated, soluble; quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns. **10 lbs. 40c; 25 lbs. 75c; 50 lbs. $1.00; 100 lbs. $1.50; ton $23.00.**

SUPERPHOSPHATE—A concentrated form of phosphoric acid, actually the cheapest form in which to buy phosphoric acid. Contains 17 to 18 per cent available phosphoric acid. **Per lb. 5c; 100 lbs. $1.75; ton $30.00.**

TANKAGE—Ground meat scraps and bone, desiccated in a vacuum, is very rich in phosphoric acid and nitrogen. **Per 100-lb. sack $2.60; ton $50.00.**

NITRATE OF SODA—For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop. **1 lb. 10c; 100 lbs. $3.50; ton $68.00.**

FISH GUANO—Fish cooked, dried and ground is a strong fertilizer, rich in nitrogen, carrying considerable phosphorous and largely used by vegetable growers. We do not recommend this for lawns or city use, as odor is objectionable.
100 lbs. $3.60; ton $70.00

POTASH—KAINIT is an imported potash salt containing 12 to 14 per cent of potash. A good fertilizer for all crops except tobacco. **100 lbs. $2.25; ton $42.00.**

MURIATE—Carries 50% and upwards Potash. **100 lbs. $2.60; ton $50.00.**

SULPHATE — Carrying 48% actual Potash and no chlorine. **100 lbs. $3.25; ton $63.00.**

LAND PLASTER, OR GYPSUM — Made from pure gypsum, free from clay or other foreign matter, valuable for clover crops. **10 lbs. 25c; 100 lb. sack $1.00; ton $17.00.**

"FERTILIME" For Lawns

This is the form of lime used on lawns, and especially recommended for sour soil.

100 lbs. $1.25; ton $20.00.

FLORANID

UREA (BASF)

92 Times Stronger than Manure

Clean, odorless, stainless—For flowers, vegetables, berries, shrubs, lawns, ornamental and fruit trees.

FLORANID is the most highly concentrated nitrogen fertilizer, containing 46% available nitrogen (equivalent to 55½% ammonia). No other fertilizing material contains anything like as high a percentage. Nitrogen is one of the principal constituents of plant food. It is the one that is first to affect the plants, producing quick and vigorous growth. Nearly all soils are deficient in nitrogen.

Vegetables and berries when fertilized with FLORANID will be more abundant and of better size, color and flavor. Flowers will be richer in color, larger, more prolific and more fragrant.

FLORANID contains more nitrogen plant food than any other fertilizer material, so much less is required for a given area. The results will justify its purchase, from the viewpoint of quantity, quality and earliness of the crop, saving in transportation charges on fertilizer, and in handling and labor.

Use 1 oz. (7 level teaspoonfuls) to the square yard worked into the surface soil after planting.

½ lb. tin 40c; postpaid 50c.
1 lb. tin 75c; postpaid 85c.
50 lb. bag $12.00, F. O. B. Portland.

SULPHUR

DIAMOND "S" BRAND REFINED FLOUR SULPHUR

For Lime-Sulphur Solution, Fertilizing and General Purposes

Recent field experiments in the Northwest have demonstrated that sulphur is one of the most valuable fertilizing materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetation, but making available the insoluble potash and phosphoric acid contained in all soils as well as being an effective fungicide and insecticide. Apply one to two sacks per acre.

DIAMOND "S" SULPHUR—Finely powdered and 100% pure. Price 110 lbs. $3.30. Write for Prices in Quantities.

ANCHOR BRAND VELVET FLOWERS OF SULPHUR

For Dry Dusting of Trees, Vines, etc., Bleaching Fruit, etc.

IMPALPABLE POWDER — 100% Pure, for Dry Dusting and Making Paste or wettable Sulphurs. **$5.75 per 110 pounds. Write for Prices in Quantities.**

TORO BRAND PREPARED SULPHUR

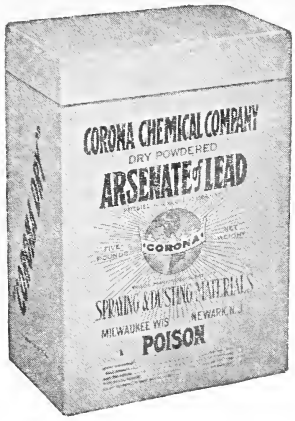
To Increase Crop Yields, drill into the soil 200 to 400 pounds per acre of "TORO" Brand. **$3.75 per 110 lbs. Write for Prices in Quantities.**

See page 32 for Prices

Prices on Fertilizers are F. O. B. Portland, Ore., subject to market changes

SPRAYS, INSECTICIDES

NOTE—Poisonous Sprays marked * cannot be mailed.



☆"CORONA" Arsenate of Lead

DRY POWDERED

Contains only Arsenic and Lead Oxides. No Fillers.

MIXES QUICKLY AND EASILY—STAYS MIXED LONGER and STICKS better to leaves, branches and fruit than **ANY OTHER** Arsenate.

A light, fluffy powder that cannot freeze, dry out, cake or lose its strength—carries the highest possible percentage of arsenic oxide, 33%—is always uniform and requires only one pound to 50 gallons of water. Efficient, economical and convenient. Highest percentage of killing power. **Prices, ½ lb. 25c, 1 lb. 45c, 4 lbs. $1.25, 25 lbs. $5.50. 1 Case 12-4 lbs. pkgs. $10.00. F. O. B. Portland.**

Write for latest quantity prices.
POISON—CANNOT BE MAILED

For DUSTING—"CORONA" DRY used as a dust spray is a safe, inexpensive, easily applied and efficient remedy for all chewing garden pests—and for use on fruit trees, berry bushes and plants—that will insure perfect fruit and clean vegetables.

"Garden Pests and their Control" and full information about "CORONA" mailed on request.

TOMATOES—For tomato worms, flea beetles, etc., make first application two weeks after setting out the plants.

CUCUMBERS—All chewing insects that injure cucumbers are quickly destroyed by dusting leaves and stems above and below. Corona Dry will not burn the foliage as Hellebore does.

POTATOES—Corona Dry is fatal to flea beetles and all chewing insects that damage the foliage. Mixed half and half with Dusting Sulphur will control and prevent early blight.

CABBAGE, CAULIFLOWER AND KALE—To control cabbage worms, dust about ten days after plants are set and as often as necessary until they begin to head. **Do not use any poison on plants after they start to head.**

SWEET CORN—The corn ear worm develops from an egg on the new silk or husk and feeds on the silk, following it into the ear. "Corona Dry" gives absolute control of this pest. Thoroughly dust the new silk as soon as it appears.

CASEIN SPREADER

KAYSO
SPRAY SPREADER & ADHESIVE

KAYSO—The combined casein spreader and adhesive—spreads the spray and makes it stay, giving an even, protecting film over every surface of fruit, leaves and bark—the most protection possible. Keeps the spray from washing off. **1½ lb. pkg. 60c; 2 lb. pkg. 75c. Postage extra.**

DORMOIL

A miscible oil spray manufactured at Hood River, Ore., and has been used by the big commercial orchards in that section with the greatest success, especially in spraying for leaf roller.

As a SUMMER SPRAY—Very efficient for young San Jose Scale and certain Aphis, when diluted with 50 to 100 gallons of water to one gallon of oil — depending on the foliage, which, if very tender, should be sprayed with a weaker solution than 1 to 50.

As a WINTER SPRAY—For San Jose Scale, Pear Scylla, Leaf Roller, Woolly Aphis, use one gallon of Oil to 15 or 16 gallons of water.

Directions for Diluting—Shake and stir well while in the original package; mix with one part of water to one part of Dormoil which will readily emulsify to a creamy consistency. When this is thoroughly mixed, put it in the spray tank and it will stay in suspension. **Price: qt. 40c; gal. 95c; 5 gals. $3.50; 10 gals. $6.50; bbl. $22.00 F. O. B. Portland.**

Corona Coppercarb

IMPORTANT changes have been made in the treatment of seed grains for the control of bunt, stinking smut, etc. The new way consists of dusting the grain with copper carbonate. It will supplant the commonly known and very distasteful formaldehyde method because the copper dust gives successful results in the control of the diseases, but does not in the slightest degree hurt germination, and at the same time relieves the farmer of a most irksome task.

Treating the grain with Corona Coppercarb can be carried out by a shoveling over process. The operation is very simple and does not require much time. A common bbl. churn will dust a large quantity of seed.

This simple dusting method with Corona Coppercarb, or even with a concentrate, means a lot to the farmer who is riding the drill from day-light to dark and has been obliged in the past to treat the grain sometime during the late evening or perhaps at night. It will eliminate forever the tedious (almost man-killing) effort of the sloppy formaldehyde process.

Use 2 to 4 ounces per bushel of Seed.

Price, 5 lbs. $1.50; 25 lb. cans only $5.50 F. O. B. Portland.

BORDEAUX

***LION DRY BORDEAUX MIXTURE**—When mixed with cold water in the proportion of 9 lbs. to 50 gallons, gives a standard Bordeaux Mixture. Keep in a tightly closed package. **Price, 1 lb. 40c; 5 lbs. $1.50; 25 lbs. $4.50; 50 lbs. $8.50; 100 lbs. $16.00; 200 lbs. $30.00. F. O. B. Portland.**

Dry Lime Sulphur

Controls all scale and fungus diseases for which Lime-Sulphur Solution is recommended. More convenient to handle and saves freight on water. Put up in air-tight packages which should be used when opened. For Winter spray use ten to fourteen pounds to fifty gallons of water. For Summer in combination with Arsenate of Lead use two to three pounds to fifty gallons of water.

Price: 1 lb. 25c; 5 lbs. $1.00; 10 lbs. $1.75; 25 lbs. $3.00; 100 lbs. $9.50 F. O. B. Portland.

Diamond Lime and Sulphur Solution

For San Jose Scale

You cannot afford to risk a cheap, open kettle product. Be safe. Use the best.

Prepared in pressure tanks by steam, and is always uniform and of the highest efficiency, tests 30 Baume Scale, made of the purest and best quality of Sublimed Sulphur and of Lime, a clear, deep cherry colored liquid, free from sediment, and is all ready to mix just as you get it. Merely add 11 gallons of water with each gallon of the Lime and Sulphur Solution. There is no sediment to clog the sprayers. No boiling to be done, which saves fuel, time, labor and annoyance. It is always alike and uniform in strength and results. **Price: 1 qt. 30c; 1 gal. 75c; 5 gals. $2.40; 50-gal. bbl. $11.00 F. O. B. Portland.**

FORMALDEHYDE

Will Prevent Oats Smut, Stinking Smut of Wheat, Barley Smut and Leaf Stripe

Use one pint formaldehyde in 40 gallons of water for wheat and barley. Spray oats with one pint formaldehyde in 10 pints of water. For **Potato Scab soak** the potatoes for two minutes in a warm solution (118 to 122 degrees F.), one pint in 15 gallons of water; small lots on the stove in wash-boiler; larger lots in tank heated with tank heater and large lots in tank heated by steam from tractor or other boiler. Full directions on application. **Pts., 60c; Qts., $1.00; Gal., $3.25**

CABBAGE DISEASES—Brown or black-rot cabbage is a bacterial disease. Club-root is a slime mold disease. Fusarium wilt, known also as "yellow," Black leg, known also as wilt, fungus diseases. Treat all seed just previous to planting. Soak for twenty minutes in a solution of one part formaldehyde to 320 parts of water or 1 teaspoonful to 1 pint of water.

ONION SMUT—This disease lives in the ground. It appears on the young plants, which are stunted, as numerous blisters which are filled with a black powder. If necessary to use infected land, apply solution in drill 1 pint to 16 gallons water, after dropping the seed and before covering it, at the rate of 1 gallon solution to 85 feet of row. (12 pints Formaldehyde to 200 gallons water per acre). Onion sets are not subject to smut injury.

CUCUMBER ROOT ROT—Thoroughly wet soil with Formaldehyde solution. 1 pint to 12½ gallons of water. Wait several days before planting.

LETTUCE ROSETTE AND ROT—Wet soils in green houses or out of doors two weeks before setting of plants with one part formaldehyde to 100 parts of water, using one gallon to each square foot of surface.

See Spray Calendar on Page 69

SPRAYS, SPRAY MATERIAL, WASHES

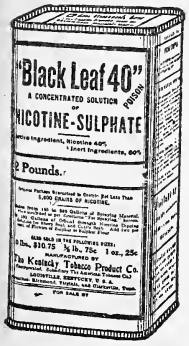
A SUCCESSFUL REMEDY FOR CABBAGE MAGGOT

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. **½ pt. 50c; pt. 75c; qt. $1.25; gal. $2.75, postage extra.**

P. S. Co.'s Aphiscide

Our Best Summer Spray for Roses

A clean, efficient spray for aphis, thrip, and kindred insects on plants of any kind. Specially fine for house plants, as it has no offensive odor and will not injure or stain the plants. **Price, qt. 35c; gal. 65c, postage extra.**



***BLACK LEAF 40**

40% Nicotine

Destroys Aphis, Thrips, Leaf Hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-shelled sucking insects — **all without injury to foliage.** Combines readily with other sprays. **1 oz., 6 gals. spray, 35c; ½ lb., 40 to 120 gals. spray.....$ 1.25 2 lbs., 160 to 500 gals. spray..... 3.50 10 lbs., 800 to 2500 gals. spray.. 13.50 Not mailable.. Prices F. O. B. Portland.**

Mag-O-Tite

Easily applied, inexpensive, not harmful to plant life; but a very valuable fertilizer and stimulant in powder form.

Absolutely Protects Cabbage, Radishes, Turnips, Onions, Etc.

A Positive Remedy for Root Maggot.

Prices, 4 lbs. 60c; 8 lbs. 90c; 25 lbs. $2.50. Postage extra.

BUHACH—Oz. 30c; ¼ lb. $1.00; 1 lb. $1.75.

TREE TANGLEFOOT — For caterpillars, moths and worms. Protects against all climbing insects. One pound makes a band 9 feet long. **Price, 1 lb. 60c; 5 lbs. $2.75; 10 lbs. $5.25; 25 lbs. $11.00.**

HAMMOND'S SLUG SHOT—For destroying slugs, cabbage and turnip flea, currant worms, etc. **5-lb. pkg. 75c, postpaid 90c.**

HAMMOND'S GRAPE DUST—To prevent mildew on roses, grapes and gooseberries. **5-lb. pkg. $1.00, postpaid $1.15.**

LEE'S GARDEN INSECTICIDE — (Non poisonous)—This is a new addition to the famous "Lee Line" of insecticides. We recommend "Lee's Insecticide" as one that is suited to the needs of the average gardener, and one that is guaranteed to give satisfaction. **1 lb. sprinkler top can, 30c; 2 lb. sprinkler top can 50c. Postage extra.**

BLUE LABEL SLUG DESTROYER— Kills slugs and keeps them away from young plants. Not harmful to delicate foliage. For Sweet Peas, Pansies and all garden truck sprinkle lightly on and around the plant. **Price, ½ lb. pkg. 25c; 6 lb. pkg. 75c. Postage extra.**

***BLUESTONE — (Vitrol) — Lb. 20c; per 100 lbs., market price. Not mailable.**

***PARIS GREEN — (Lion Brand) —** The standard of purity. Guaranteed superior to other makes. **Price, ¼ lb. 25c; ½ lb. 40c; lb. 75c. Not mailable.**

FISH OIL SOAP—For aphis, plant lice, etc. **Per bar, 20c; 100 lbs. bulk $12.00. F. O. B. Portland.**

TOBACCO DUST — Lb. 15c; 10 lbs. $1.00; 100 lbs. $7.00. F. O. B. Portland.

CARBOLINEUM

CARBOLINEUM — AMERICAN — Wood Preserver—This is the pure CARBOLINEUM, used for preserving any kind of timber above or below ground. Painting roofs, fence posts, farm buildings, chicken houses and roosts to prevent mites and other pests. **Quart can 70c, weight, 4 lbs.; gal. $1.75; 5 gals. $7.50. F. O. B. Portland.**

CLENSEL

(Patterson's Concentrated)

A highly concentrated spray (one gallon will make from 25 to 50 gallons of spray) used on ROSES, SWEET PEAS, BEANS, and other plants as a preventive against Aphis, Red Spider, Mildew and many other forms of diseases. It is also very beneficial to the foliage on plants. It being non-poisonous it can be used safely. **½ pints 60c; pints $1.00; quarts $1.75; gallons $5.50.**

SEMESAN

The NEW mercuric disinfectant for seed, plant and soil diseases.

Actually increases germination and invigorates seedling growth.

Can be applied in **either dust or liquid form.** Will successfully prevent or control the majority of externally and many internally borne diseases of seeds without impairing their vitality. Also effective in curing a number of common diseases that attack plants and infest the soil.

"Brown Patch"—Semesan prevents and cures "Brown Patch," a disease of grasses that destroys the turf on golf greens, lawns, etc. Semesan is not only harmless to turf but is will actually stimulate the grass to more profuse growth.

"Damping-Off" — Seedlings grown from Semesan-treated seeds are more resistant to the costly "damping-off" fungi which so severely attack both seedlings and cuttings.

2 oz. 60c; 4 oz. $1.00; 8 oz. $1.60; 1 lb. $2.25; 5 lbs. $13.00; 25 lbs. $62.50; 100 lbs. $235.00. F. O. B. Portland.

PURITAN LIME — A specially manufactured and highly refined lime product for household and other uses. Can be used as a whitewash or for any purpose where a slack lime is desired. **5 lb. pkg. 35c. Postage extra.**

PURITOL — A white disinfectant paint in dry powered form. Ready to use when mixed with cold water. Excellent for use in chicken house, hog house, dairy, etc. Keep the interior of your buildings clean. **Price, 5 lb. pkg. 65c.**

"NICO-FUME" TOBACCO POWDER

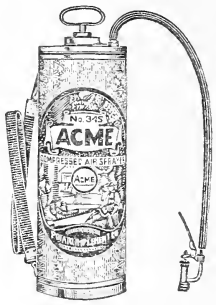
Tobacco Powder impregnated with a high strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphis, Thrips, etc. Fill an ordinary 2½-inch flower-pot heaping full of the "Nico-fume" Powder, pour the powder out on the bare ground or cement walk in a narrow pile about 7 inches long. For moderately rapid fumigation light the pile at the one end, for extra rapid, light both ends. Use a pile to each 5,000 cubic feet of air space. Place piles at equal distance apart. **1 lb. can $1.25; 5 lb. can $4.75; 10 lb. can $8.50. F. O. B. Portland.**

"NICO-FUME" LIQUID

For fumigation and spray for greenhouse work. Kills Aphis, Red Spider, Mealy Bug, Thrip, etc. **1 lb. can $2.25; 4 lb. can $8.00; 8 lb. can $15.00. F. O. B. Portland. Not mailable.**

COMPRESSED AIR SPRAYERS

For Spraying
Insecticides
Disinfectants
Stock Dip
Whitewashing
Cold Water Paint
Washing Autos, etc.



FAVORITE HUDSON

4 gallon approximate capacity. Size 20x7½ inches. Pump is 1¾x15 inches of brass tubing, brass valve. Malleable handle and fittings will not break. Ship. wt. 10 lbs.
With galvanized tank $6.50.
With brass tank $9.00.

JUNIOR HUDSON

2½ gallon approximate capacity. Size 16x6 inches. Made the same as the Favorite except smaller and lighter to carry about. A popular size. Ship. weight 9 lbs.
With galvanized tank $5.25.
With brass tank $8.25.

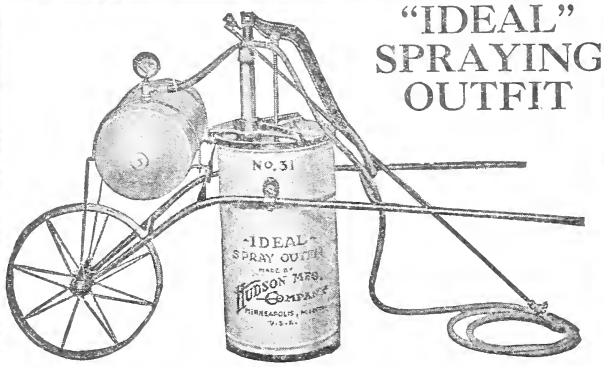
ACME LARGE

4 gallon capacity. Size 20x7 inches. Tested to 60 lbs. air pressure. Seamless brass cylinder 1¾x15 in., brass valve, solid brass nozzle, non-clogging, non-corroding. Ship. wt. 10 lbs.
With galvanized tank $6.50.
With brass tank $9.00.

ACME JUNIOR

1 gallon capacity. Size 12x5½ inches. Built the same as the large Acme and just the thing for the small garden. Nozzle will not clog or corrode. Easily adjustable. Ship wt. 6 lbs.
With galvanized tank $4.50.
With brass tank $7.50.

"IDEAL" SPRAYING OUTFIT



Designed especially for small growers, for city and suburban homes, poultrymen, etc. Tank holds 15 gallons. Pump has large air chamber, bronze ball valves and is easily removable. Gives a pressure of 275 lbs. Mechanical agitator and strainer. Complete with 10 ft. of ⅜-inch hose, 8-ft. jointed extension, T-handle shut-off, "Ideal" non-corroding nozzle; 20-inch wheel, 2½-inch tire. Easy to wheel about. Shipping weight crated, 130 lbs. **Price $37.50.**

GOULD'S BARREL SPRAY PUMPS

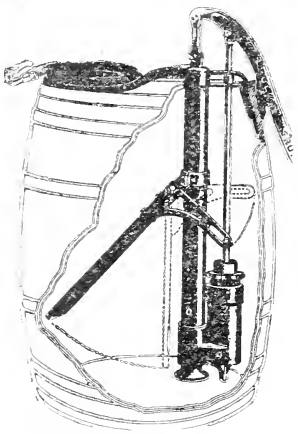


Fig. 1188—"FRUITALL"

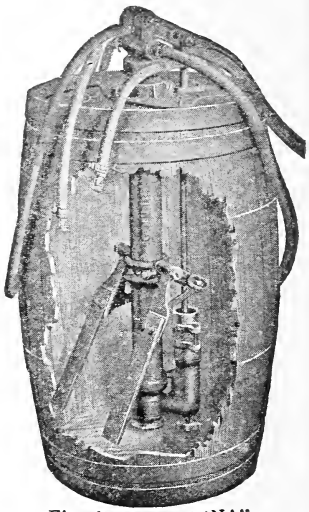


Fig. 1100—"POMONA"

Fig. 1100, POMONA is the best orchard spray pump for mounting in a barrel. All working parts are bronze, including valves and seats. Plunger is outside packed. Valves easy to reach. Adjustable stroke long lever. Automatic agitator thoroughly mixes liquids.

Fig. 1100, Outfit A—Pump only **$25.00**

Outfit B—Pump with 12½ ft. hose, 8 ft. bamboo extension with cut-off, one Vermorel nozzle (no barrel) **$31.00**

Outfit C—Same as outfit B, and mounted in barrel **$33.50**

Outfit D—Pump with two 12½ ft. leads spray hose, two Vermorel or Seneca nozzles, two 8 ft. bamboo extensions with cut-off; pump mounted in barrel **$39.00**

Fig. 1188—"FRUITFALL" Spray Pump is made lighter and of smaller capacity. All working parts are made of brass. Not made for side of barrel.

Outfit A—Pump only **$16.50**

Outfit B—Pump with 15 ft. of spray hose and one Vermorel nozzle, all complete **$21.00**

Outfit C—Pump mounted in barrel, 15 ft. hose, 8 ft. bamboo nozzle and cut-off, all complete **$26.50**

NOTE—Extra spray hose at 15 cents per foot.

Monarch Two-Cylinder Spray Pump

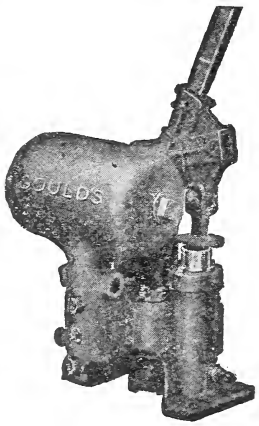
GOULD'S MONARCH No. 1640 is one of the best of the larger pumps. Chief features are: Long lever can be shifted to pull or push, lift or drop at any time operator desires a relief; pump is outside of barrel, easy to care for; cylinders are perpendicular; no valves in plungers; packing is outside and can be tightened in a minute, valves are each reached by simply unscrewing its cap. 2-inch cylinder.

Outfit A—Pump only, with strainer and hose connection **$40.00**

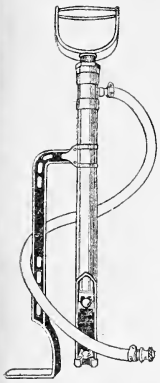
Outfit B—Pump with 6 ft. ¾-inch suction hose **$42.00**

Outfit C—Pump, suction hose, 25 ft. best spray hose, 8 ft. bamboo extension, Globe valve and nozzle **$50.00**

For 2½ in. Cylinder add $5.00 to price of pump.



BUCKET SPRAY PUMPS AND SPRAYERS

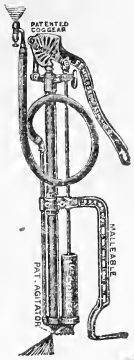


SINGLE CYLINDER

A double acting high pressure spray pump of large capacity. Discharges on both up and down strokes, giving a continuous spray. Solid bronze ball valves, brass working parts. Complete with hose and nozzle, with discs for fine or coarse spray and solid stream cap. Weight 6¼ lbs. **Price each $4.25.**

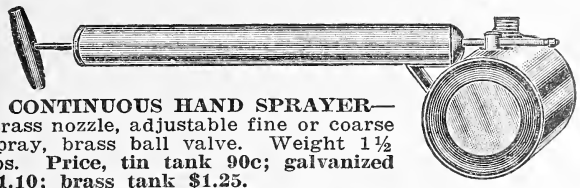
DOUBLE CYLINDER

All operation is on the down stroke which tends to steady and hold pump down. Continuous spray. Solid bronze ball valves, all working parts brass, non-corroding. With hose and nozzle. For fine or coarse spray. Weight 7½ lbs. **Price each $4.85.**

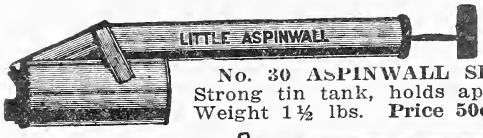


LEVER HANDLE

The lever handle and large air chamber make this the most powerful bucket pump and the easiest one to operate. All working parts are solid brass with brass ball valves and patent agitator. Graduating nozzle to throw a fine or coarse spray or a solid stream. Weight, 8 lbs. **Price $6.95.**

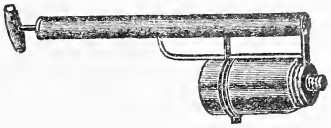


CONTINUOUS HAND SPRAYER—Brass nozzle, adjustable fine or coarse spray, brass ball valve. Weight 1½ lbs. **Price, tin tank 90c; galvanized $1.10; brass tank $1.25.**

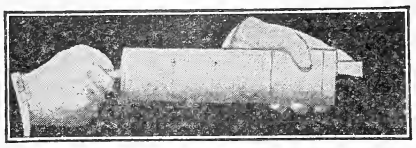


No. 30 ASPINWALL SPRAYER—Strong tin tank, holds approx. 1 qt. Weight 1½ lbs. **Price 50c.**

No. 20 ACME SINGLE POWER BELLOWS—For blowing powder on vines and bushes. Wt. 2 lbs. **Price $1.40.**



GLASS JAR SPRAYER—A double tube sprayer with quart Mason jar tank. Gives large dense spray. Wt. 3 lbs. **Price 75c.**



FEENEY DUST GUN, MODEL B—Covers every surface with a cloud of dust, hunts every crack, nothing escapes being treated. Very powerful. Weight 2 lbs. **Price $1.00.**

INSECT POWDER GUNS—Powerful blowers. Small size **15c**; large size **80c; postpaid.**

HANDY DUST SPRAYER—Heavy tin, large size, very effective. Ship. wt. 3 lbs. **Price 65c.**

SPRAY NOZZLES, CONNECTIONS, FITTINGS *and* EXTENSIONS

NON-CLOG NOZZLE, the best hop nozzle, perfect spray, produces a fog in great volume at a light pressure. Weight 8 oz. **Price 75c.**

NON-CLOG ANGLE—Weight 9 oz. **Price 85c.**

VERMOREL NOZZLE, with degorger; gives a conical discharge. Weight 4 oz. **Price $1.00.**

NOZZLE ELL—Weight 2 ozs. **Price 25c.**

HOSE CONNECTION—For nozzle or extension. Weight ¼ lb. **Price 35c.**

CALDWELL BANDS—Doz. postpaid, ½ inch or ¾ inch 35c.

DOUBLE CUT-OFF—Weight 2 lbs. **Price $2.50.**

BAMBOO EXTENSION—Has iron pipe inside of bamboo, threaded for nozzles and stopcock.

Length, feet	2 to 4	6	8	10	12
Price	$1.15	$1.45	$1.75	$2.00	$2.25

With Stopcock, add $1.00

SENECA NOZZLE—Gives a very wide spray, discharge easily graduated. Excellent for whitewashing. Weight 5 oz. **Price $1.25.**

BRASS Y—¼-inch. for nozzle only. Weight ¼ lb. **Price 50c.**

HOSE REDUCER—For nozzle or extension. Weight 3 ozs. **Price 45c.**

BRASS YERDON'S BANDS—½ inch. **Each 10c; doz. 75c; postpaid 85c.**

STOPCOCK—Weight ½ lb. **Price $1.00.**

SPRAY HOSE COUPLINGS—2½-inch shank for heavy pressure spraying. **For ½ or ⅝ inch hose, price pair, 75c, postpaid.**

HOSE COUPLINGS—For garden hose, ½-inch or ¾-inch, complete. **Price per pair 40c; postpaid 45c.**

HOSE WASHERS—½-inch, rubber. **Doz. 10c.**

SPRAY HOSE

Spray Hose can be cut in any length desired. When less than 50 ft. length is ordered, add 75c for couplings on each length.

MONARCH SPRAY HOSE—Absolutely the best we can buy; the rubber is of exceptionally high quality and we strongly recommend it to orchardists. **½-inch size, per foot 24c.**

AJAX SPRAY HOSE—A splendid moulded hose, stands high pressure. **⅝-inch size, per foot 16c.**

GARDEN HOSE

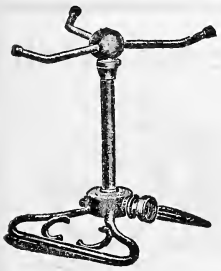
Furnished in 50-foot lengths, coupled ready for use. **For 25 foot lengths add 35c to price of length for couplings.**

CORRUGATED NON-KINKABLE GARDEN HOSE—Especially recommended for florists and gardeners for hard service. **½-inch, per foot 12c. ¾-inch, per foot 15c.**

ST. HELENS GARDEN HOSE—A popular hose for general use. **½-inch, per foot 10½c.**

COTTON COVERED GARDEN HOSE—High grade rubber tubing with heavy woven cotton covering. **½ inch, foot 12c. ¾ inch, foot 14½c.**

LAWN SPRINKLERS

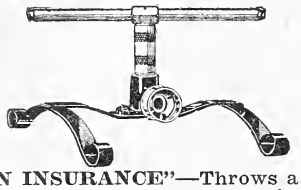


Pluvious **Busy**

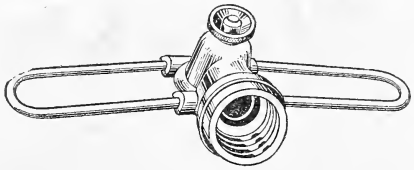
PLUVIUS—Strong iron stand, upper part all brass; turns with small force, sprays large area. Wt. 3½ lbs. **Price $2.00.**

BUSY—A regular water flirter, runs easy. Wt. 2 lbs. **Price $1.25.**

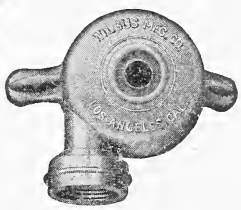
No. 119—Can be moved about the lawn without tipping. Wt. 2 lbs. **Price $1.00.**



"RAIN INSURANCE"—Throws a fine spray 40 to 50 ft., revolves fast on any pressure. Wt. 2½ lbs. **$2.50.**



No. 119



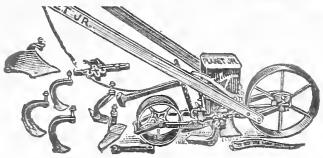
No. 1 **No. 7**

No. 1 WILGUS—The original Wilgus, used the world over, all brass, non-rusting. **Price postpaid 75c.**

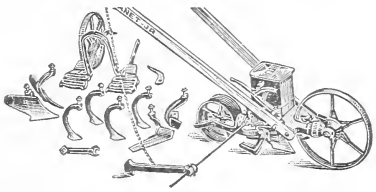
No. 7 WILGUS—The twin sprinkler, throws a very pretty rain-like fine spray. **Price postpaid 50c.**

NOTE—For mail shipment add postage on all items on this page except those marked postpaid

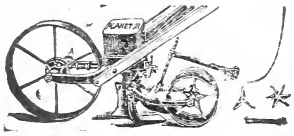
Planet Jr. Garden Tools



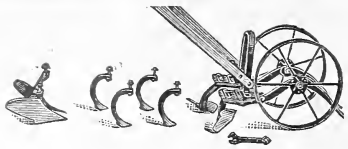
No. 4 PLANET JR. COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULIVATOR AND PLOW—Soon pays for itself in the family garden as well as in the larger acreage. Sows all garden seeds (in drills or in hills), plows, opens furrows and covers them, hoes and cultivates quickly and easily. Weight, 50 lbs. Holds 2 qts. **Complete, price $19.50 Seeder only, price $15.25.**



No. 25 PLANET JR. HILL AND DRILL SEEDER, DOUBLE AND SINGLE WHEEL HOE—A splendid combination for the family garden, onion grower, or large gardener. It is a perfect seeder, and combined dbl. and sgl. wheel hoe. Weight, 60 lbs. **Price, $22.50.**



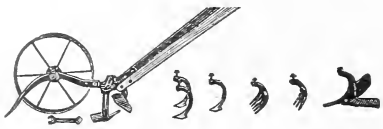
No. 3 PLANET JR. HILL & DRILL SEEDER—A favorite among onion growers, market gardeners and seedsmen. The index and seed cut off rod is conveniently placed at the top of the handle. Holds 3 qts. Weight 43 lbs. **Price, $18.50.**



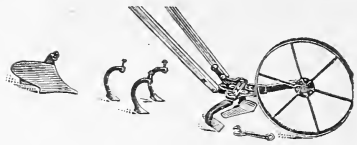
No. 12 PLANET JR. DOUBLE WHEEL HOE, CULIVATOR AND PLOWS—A single and double wheel hoe in one. Straddles crops till 20 inches high, then works between. Has steel frames and 14-inch steel wheels. The greatest hand-cultivating tool in the world. Weight, 33 lbs. **Price $11.50.**

No. 11 DOUBLE WHEEL HOE, CULTIVATOR, PLOW RAKE—These Double Wheel Hoes are the highest type of machine of this kind made. Light and durable—can be used by man, woman or boy. Weight, 39 lbs. **Price, $14.50.**

No. 13 DOUBLE AND SINGLE WHEEL HOE—This is the No. 12, with 6-inch hoes only, these being the tools that are most used. Weight, 28 lbs. **Price, $8.75.**



No. 16—SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW—Used mostly between the rows, yet by mounting wheel on other side of arm, can be used to hoe both sides at once while plants are small. Weight. 26 lbs. **Price $9.50.**

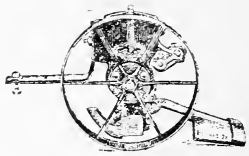


No. 17—SINGLE WHEEL HOE—Has a most useful set of attachments. Scarcely any garden cultivation it will not do. Weight, 24 lbs. **Price $8.25.**

No. 17½—Same type as No. 17—One pair of 6-inch hoes and three cultivator teeth. **Price, $7.25.**

No. 18—Same type as No. 17—Has one pair of 6-inch hoes only—**Price $6.25.**

PLANET JR. STAR PULVERIZER, LEVELER AND WEEDER—Adapted for preparing seed bed, in smoothing and fining the soil surface. After crops are started, use between rows as a weeder or as a crust breaker. Width 7½ inches. Weight, 5 lbs. **Price, $4.75.**



No. 35 PLANET JR. SEEDER AND ATTACHMENT FOR WHEEL HOES AND GARDEN PLOWS—Can be attached to any Planet Jr. Single or Double Wheel Hoe or Plow, quickly attached by single bolt will sow practically any garden seeds—accurately, in straight even rows, at a uniform depth and cover them. Wgt. 8½ lbs. **Price, $6.75.**

Cultivating Attachments for Planet Jr. Tools

PLOWS

Plow for Single Wheel Hoes. **Each $1.50.**

Plows for Double Wheel Hoes. **Pair $1.50.**

Double Mouldboard Plow for Single Wheel Hoe. **Each $3.00.**

TEETH

Cultivator Teeth. **Each 40c.**

Three Prong Cultivator Teeth. **Pair $2.25.**

DISC HOES

With high dirt shield. **Price $3.50.**

HOES

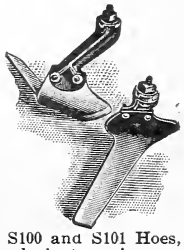
Peat Land Hoes, 6 inch. **Pair $2.60.**

C & D HOES

Two Sizes

Size	Pair
7½ inch	$1.50
9 inch	1.65

HOES



S100 and S101 Hoes, made in two sizes.

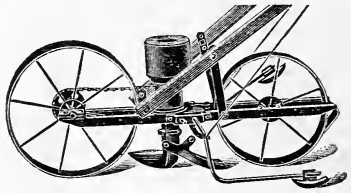
Size	Pair
4½ inch	$1.20
6 inch	1.30

RAKES

For Fine Cultivation.

3-tooth, per pair....$1.50
5-tooth, per pair.... 2.00
7-tooth, per pair.... 3.00

Iron King Seed Drill



FOR ONION GROWERS—A well-made, durable easy running machine, accurate and reliable, will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one. Also for lettuce, spinach, beet, cabbage and will **sow anything from turnips to peas. Weight packed, 45 pounds. Price, $15.00.**

GARDEN PLOW and CULTIVATOR

No. 20 STANDARD

Large 24 inch wheel, strong frame, complete with plow, hoe, rake, cultivator and wrench. Weight without seeder 25 lbs. Price without seeder **$4.50.**

Price complete with Midget Drill Seeder attached (see description below) **$8.50.**

The above cut shows the Standard No. 20 with the Midget Drill Seeder attached. This seeder can de attached to other makes of cultivators of this style. **Midget Seeder only, $4.25.**

Fig. 14

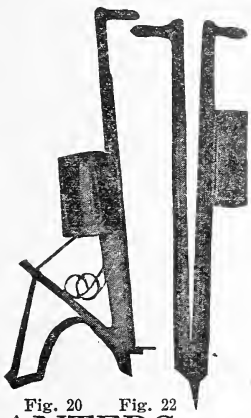


Fig. 16 Fig. 20 Fig. 22

CORN PLANTERS

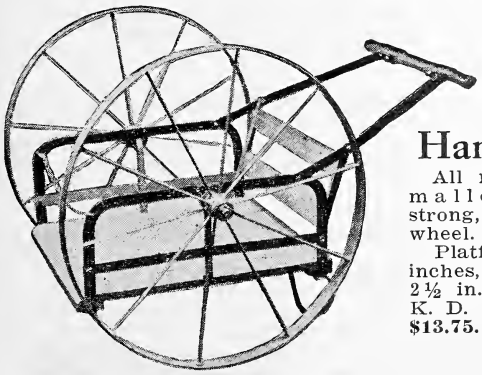
ACME AUTOMATIC—One Hand (Fig. 20)—Puts the right number of kernels just where you want them and at the proper depth, requiring only one hand, either right or left. Weight packed 6 lbs. **Price $2.50.**

ACME—(Fig. 22)—A two-handed planter. Light, well made, and especially adapted to heavy, cloddy or stony soils. Adjustable—from popcorn to large kidney beans. Weight packed 4 lbs. **Price $1.35.**

Potato Planters

PEERLESS — (Tubular) — (Fig. 16) — This light tubular planter locks itself as it is lifted out of the ground and the next potato may be dropped in at once. Opens automatically by forward movement. Weight packed 5 lbs. **Price $1.95.**

PINGREE or ACME—(Fig. 14)—Similar in action to the tubular. You lift the planter up to drop in the potato. Weight packed 4 lbs. **Price $1.35.**

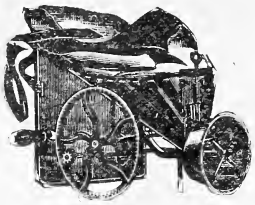


Handy Cart

All metal parts malleable steel, strong, light, easy to wheel.

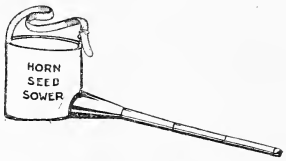
Platform 27 x 30 inches, 36 in. wheel, 2½ in. tire. Weight K. D. 85 lbs. **Price $13.75.**

BROADCAST SEED SOWERS



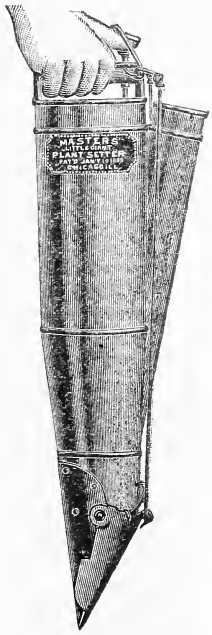
CAHOON STYLE—Made of steel, iron and brass; the most popular and best; force feed; does excellent work. Sows all grain and grass seeds. Weight 9 lbs. Instructions included. **Price $5.00.**

CYCLONE—Sows any kind of seed perfectly even over the ground at rate of 50 acres a day, any amount desired per acre. Saves seed—soon saves its cost. Weight 8 lbs. **Price $2.50.**



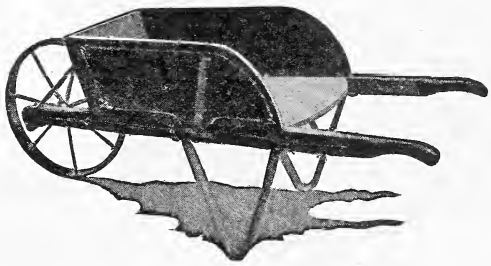
Tin Horn Seeder

A good serviceable seeder at a low price. Adjustable. Weight 1 pound. **Price $1.00.**



Master's Plant Setter

With a "Master's" you can set, water and fertilize 10,000 plants a day and do better work than if set by hand. Works as fast as you walk. Sets cabbage, kale, celery, tomatoes and vegetable plants of all kinds. Wt. packed 5 lbs. **Price $6.00.**



American Garden Wheelbarrow

20-inch steel wheel with 2-inch oval tire. Solid steel axle and malleable axle boxes. Oval pressed steel legs. Vermillion finish and varnished. Light but rigid—built to last. Shipped K. D.

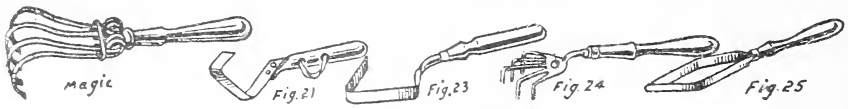
No. 1—Size of deck 17x22x29. **Price $8.75.**

DIAMOND FERTILIZERS

The Base is Bone Meal and Tankage—No Cheap Filler. Every Pound is Good Fertilizer.

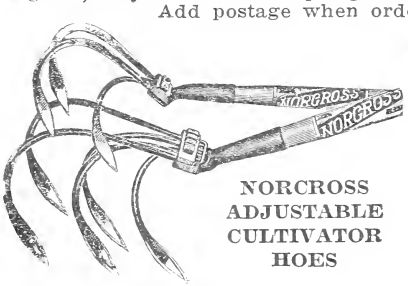
DIAMOND QUALITY Fertilizers are complete fertilizers of the highest grade and concentration, no inferior ingredients or cheap fillers are used in their preparation, Bone Meal and Tankage forming the base to which is added the necessary Potash, Nitrogen and Phosphoric Acid. Each package is marked plainly, showing the percentage of available plant food. Use it on your Rhubarb.

HAND WEEDERS, HOES, TROWELS, RAKES, SICKLES, SHEARS, MOWERS, ETC.



HAND WEEDERS

Magic A—3 tines spring steel, wt. 1 lb. each.....15c
Fig. 21, Lang's—Spring steel blade, riveted, wt. ½ lb., each.....20c
Fig. 23, Hazeltine's—Spring steel blade, ferruled handle, wt. ½ lb., each....30c
Fig. 24, Excelsior—Malleable iron, tinned, wt. ½ lb., each.....20c
Fig. 25, Noyes—Diamond spring steel blade, wt. ½ lb., each.....25c
Add postage when ordering to go by parcel post.



NORCROSS ADJUSTABLE CULTIVATOR HOES

Like a human hand, the fingers of the "Norcross" work closely around the plants without injury. Keeps down weeds, saves moisture, leaves the ground level. 4-ft. handle.

FIVE PRONG for regular garden work; weight 4 lbs. **Price $1.00.**

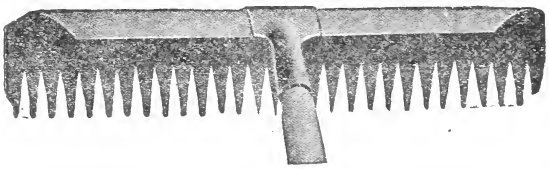
THREE PRONG for narrower rows and close work; wt. 3 lbs. **Price 75c.**

GARDEN TROWELS

MAYNARD STEEL SHANK — Extra heavy; wt. 1 lb. **Price $1.00.**
No. 85—New style long handle, wt. 1 lb. **Price 50c. Postpaid 60c.**
No. 40 — Transplanting trowel, six black enameled finish, wt. 1 lb. **Price 25c each.**
No. 41 — Transplanting trowel, six inch, steel, wt. 1 lb. **Price 25c.**
Add 10c postage on parcel Post.

SPADING FORK

No. 30—Forged steel, 3 tine, 11 in. wt. 1 lb. Each 50c; **postpaid 60c.**

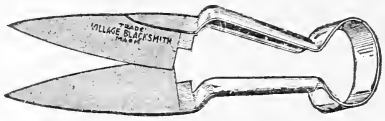


"ALL-PURPOSE" RAKE

95c

For Dandelion, Garden or Lawn

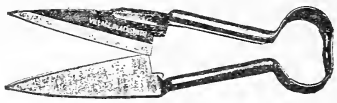
Unequalled for removing yellow dandelions. When it is pulled across the lawn, stems, leaves and blossoms are wedged between its teeth and easily pulled out. Also a first class rake for general work; will pick up acorns, pebbles, small twigs, etc., which an ordinary rake will not touch; will clean the lawn of cut grass and dead leaves in better shape than is possible by any other means. It is self cleaning. A single backward stroke cleans the rake.



GRASS SHEARS

VILLAGE BLACKSMITH BRAND

6-inch hollow ground blades, clean cutting. Full polished. Weight 1 lb.
No. V51—With trowel shank, pr. **$1.00**
No. V1—Without trow'l shank, pr. **75c**



No. 31—Red enameled spring and handle, price **65c**
Add postage on parcel post orders.

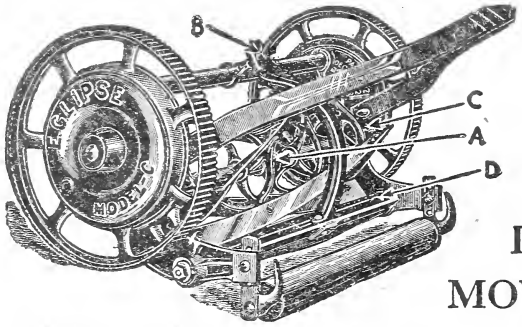
GRASS HOOKS

No. 3—Village Blacksmith Brand—With offset handle. Forged cutlery steel, tempered, ground, sharp and whetted; wt. 1 lb. Each **65c.**
Add postage on parcel post orders.

LONG HANDLE GRASS HOOK

No. 6—With long 43 inch ash handle, 12 inch blade of crucible steel tempered and ground. Heavy construction; wt. 3 lbs. Price **$1.25.** Add postage if wanted by parcel post.

PLANET JR. GRASS EDGER—With the No. 2 Planet Jr. Edger you can edge either straight or curved walks of cement, stone or brick, rapidly and easily. Weight 4 lbs. Add postage when ordering by parcel post. **Price $2.00.**



LAWN MOWERS

ECLIPSE—Self Sharpening—One of the best built, most durable and satisfactory mowers. The thumb screws for bringing the revolving and stationary blades into position are easily adjusted—as is also the arrangement for sharpening all blades to fit so they cut like shears. 16 inch wheels, 4 blades, 6 inch reel.

Length of cut, inches	14	16	18
Price	**$19.00**	**$21.50**	**$23.00**

THE PROPHET MOWER is built of the same high grade materials as the Eclipse, standard in size and weight, 10-inch drive wheels, 6-inch four-blade reel, dust-proof oilers, and self-adjusting bearings.

Length of cut, inches	14	16	18
Price	**$14.50**	**$15.50**	**$16.50**

THE LADY MOWER is also built of the same high grade materials as the Eclipse and Prophet. The reel is six inches, four blade, controlled with ball ratchets and held in adjustable bearings. Drive wheels are eight inches.

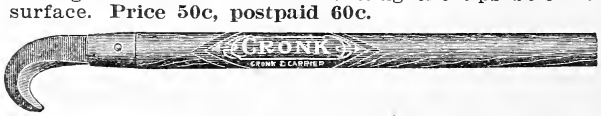
Length of cut, inches	14	16	18
Price	**$11.50**	**$12.50**	**$13.00**

CORN KNIVES

Tapered blade. Length including handle, 22½ inches. Shipping weight 2 lbs. Add postage for parcel post shipment. **Price 85c.**

ASPARAGUS KNIFE

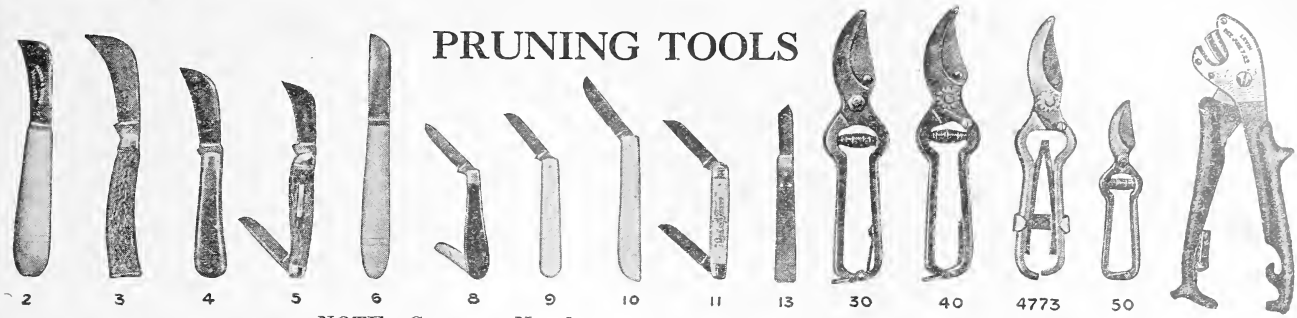
Has long shank and blade for cutting the tips below the surface. **Price 50c, postpaid 60c.**



BERRY HOOK

No. 99—3½-ft. handle. Hook of good quality steel. Used in cutting out dead berry bushes—and similar work. **Each 75c.**

PRUNING TOOLS



NOTE—Compare Numbers on Cut to Those in Descriptions

BUDDING KNIVES

No. 5—Budding and Pruning Knife. **$1.75 postpaid.**
No. 8—Ebony handle, ivory opener. **$1.50 postpaid.**
No. 10—Ivory handle, light and fine. **$1.50 postpaid.**
No. 13—Wood handle, stationary blade. **50c postpaid.**

GRAFTING KNIVES

No. 6—Wood handle, stationary blade. **60c postpaid.**
No. 9—Ivory handle, splendid value. **Price, $1.25 postpaid.**
No. 11—Combined Grafting and Budding. **$1.75 postpaid.**

PRUNING KNIVES

No. 2—Wood handle, stationary blade. **70c postpaid.**
No. 3—Large Horn handle, very strong. **$1.75 postpaid.**
No. 4—Polished wood handle. **Price, $1.25 postpaid.**

PRUNING SHEARS

Add Postage When Ordering by Parcel Post

No. 4773—9-inch; full polish, with double brass springs; best American made. Weight, 1 lb. **Price, $2.35.**
No. 40—9-inch; bright finished, polished blade spiral steel spring; made for hard service. Weight, 1 lb. **Price, $1.75.**
No. 41—Same as No. 40, except with ratchet nut. Weight, 1 lb. **Price, $1.90.**
No. 30—7-inch; black finish; polish blade; very good. Weight, 1 lb. **Price, $1.25.**
No. 31—Same as No. 30, only 9-inch ratchet nut; an American make. Weight, 1 lb. **Price, $1.40.**
No. 50—Five and half-inch; nickel-plated, small, but of best material; fine for ladies. Weight, 1 lb. **Price, $1.25.**
Levin's No. 23—7½ inch, polished tool steel blade, cuts ½ inch dry oak. Weight, 1 lb. **Price $1.00.**

BRANCH SHEARS

No. 126—Length 26 inches. Tool steel blade and hook, shear cut. Shipping weight 5 lbs. **Price $2.45.**

No. 35—Length 24 inches. Tool steel blade and hook, shear cut. Shipping weight 2½ lbs. **Price $1.60.**

THINNING SHEARS

For grape or fruit thinning. High grade tempered steel. Shipping weight 1½ lbs. **Price 65c.**

Duplex Pruning Saw

No. 3—One side has Tuttle steel, the other side regular teeth. Ship. wt. 1 lb. **16 inch $1.50; 18 inch $1.75.**

Regular Pruning Saw

No. 1—Best silver tool steel, regular tooth. Shipping weight 1 lb. **16 inch $1.35. 18 inch $1.50.**

California Pruning Saw

No. 13—Crescent shape, best silver steel, regular tooth Shipping weight 1 lb. **14 inch, each $1.75.**

NEW BASTIAN PRUNER

The powerful lever enables you to do the same work in half the time and with half the labor that would be required with old-style pruners.

Blades are of finished Damascus steel, very strong and hold their cutting edge. Simple in construction, light, strong and durable. We recommend the Bastian to all fruit growers. **Prices F. O. B. Portland**

Size ft.	6	8	10	12	14	16
Price	**$1.75**	**$2.00**	**$2.25**	**$2.50**	**$2.75**	**$3.00**

GRAFTING WAX

LION BRAND—¼ lb., 20c; ½ lb., 30c; 1 lb. 60c. Add Postage at zone rate.

Northwest Fruit Picking Ladders

6, 8, 10 and 12-foot lengths. Strong, light and serviceable. **Price, 50c per foot.**

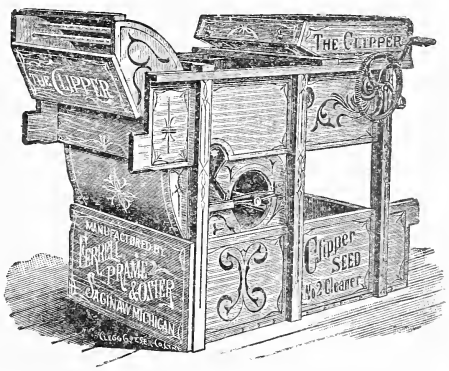
THE CLIPPER GRAIN AND SEED CLEANER

USED BY ALL AGRICULTURAL COLLEGES AND BY THE U. S. DEPARTMENT OF AGRICULTURE

No work done on the farm brings such large returns as thoroughly preparing the grain and seed by recleaning and grading for planting. This insures an even stand of strong, healthy plants, and a larger yield of a higher grade. The "Clipper" cleaner is especially adapted to this kind of work on account of its ability to separate the small, also the light, dead seed or grain from the perfect seed or grain.

Other mills depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper" screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest.

Screens are so arranged as to be in plain view and of easy access to the operator while machine is in operation, and a set of ten being furnished with either the No. 1B or No. 2B. These are ample for general work—but special screens can be furnished for any cleaning operation.

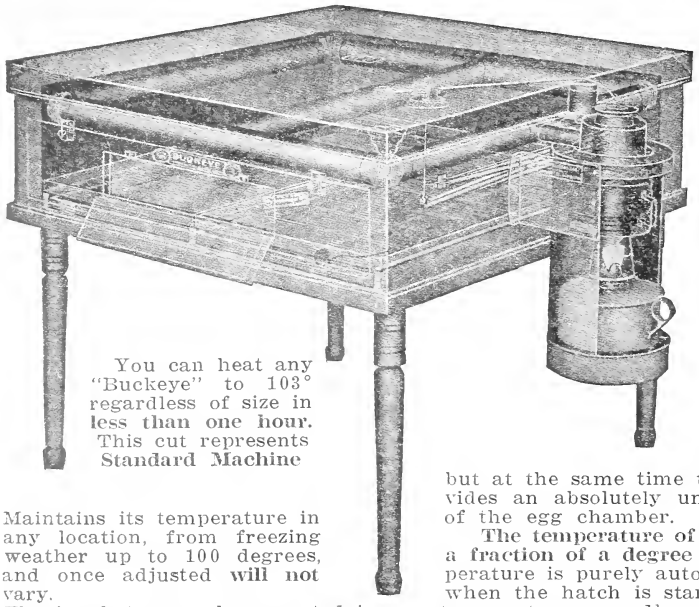


Guaranteed to do the most perfect work of any Hand Seed Cleaner
The "Clipper" is a first-class, inexpensive and durable mill for general use
No. 1B—Capacity 20 bu. Grain or 10 bu. Seed per hour. **Price $40.00.**
No. 2B—Capacity 25 bu. Grain or 15 bu. Seed per hour. **Price $50.00.**
No. 6—POWER MILL. Capacity 200 bu. Grain or 35 bu. Seed per hour. **Price $150.00.**
No. 16—POWER MILL. Three-step pulley air control. Capacity 200 bu. Grain or 35 bu. seed per hour. **Price $230.00.**
No.16—POWER MILL. Variable air control. Capacity 200 bu. Grain or **35 bu. Seed per hour. Price $285.00.**

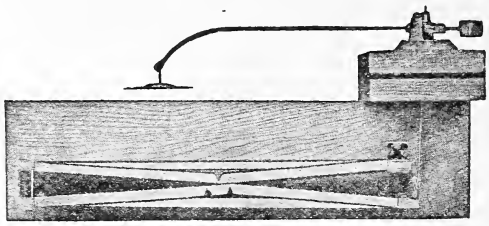
We can also supply Clipper Power Cleaners of large or small capacity for any purpose.

We have supplied "Clipper Cleaners" to the mills, dealers and prominent growers of the Northwest. If you grow grain or seed and do not own a "Clipper," you are losing many times its cost every year. Let us send you **"The Clipper" Catalog** of hand and power cleaners. All sizes and prices.

"BUCKEYE" HOT WATER INCUBATORS



You can heat any "Buckeye" to 103° regardless of size in less than one hour. This cut represents Standard Machine



Buckeye Thermostat

Nearly half a million "Buckeyes" are in operation in all parts of the United States.

The unprecedented success which has followed the Buckeye for twenty-five years is primarily due to the invention of the **Buckeye hot-water system,** without which that perfect balance between the **temperature, moisture** and **ventilation** which is necessary to successful incubation, would be a physical impossibility. Heating the egg chamber without cooking all moisture out of the air is responsible not only for the abundant supply of natural moisture but at the same time the soft, radiated heat from the hot water tank provides an absolutely uniform temperature and permits the perfect ventilation of the egg chamber.

Maintains its temperature in any location, from freezing weather up to 100 degrees, and once adjusted **will not** vary.

The temperature of every Buckeye built is guaranteed to be uniform within a fraction of a degree at all times in the egg tray. The regulation of temperature is purely automatic and needs no watching. You set the regulator when the hatch is started and do not touch it again until the next hatch. The incubator can be operated in any temperature regardless of sudden changes. Regardless of size or price, we guarantee every Buckeye to work satisfactorily in any temperature down to freezing. No previous incubator experience is required to operate a Buckeye. Outside of filling the lamp and turning the eggs, everything is automatic and requires no attention from the operator.

PRICES F. O. B. PORTLAND

Size	Style	Weight	Price
No. 14—	65-egg, sgl. wall, short legs	55 lbs.	**$18.00**
No. 16—	110-egg, Sgl. wall	85 lbs.	**30.75**
No. 17—	210-egg, Sgl. wall	125 lbs.	**40.50**

Ask for complete **Buckeye** catalog. Free on request.

Size	Style	Weight	Price
No. 1—	110-egg, Standard	110 lbs.	**$41.00**
No. 2—	175-egg, Standard	135 lbs.	**48.25**
No. 3—	250-egg, Standard	200 lbs.	**62.50**
No. 4—	350-egg, Standard	230 lbs.	**73.75**
No. 5—	600-egg, Standard	325 lbs.	**116.00**

"BUCKEYE" INCUBATORS—PRICE LIST OF EXTRA PARTS

Thermometers for Incubators (Tested)	$1.00
Thermometer Holders for Incubators	.15
Lamp bowl for all Incubators	1.00
Lamp Burner No. 2 (will fit Style A, B and C, Standard 110, 220)	.50
Lamp Burner No. 35 (will fit No. 60, No. 1, No. 2, Style E, H)	.75
Lamp Burner No. 50 (will fit Incubators No. 3, No. 4 and No. 5)	1.00
Lamp Burner No. 3	.75
Lamp Chimneys for all Incubators	.50
Lamp Wicks for all Burners, per dozen	.35
Thermostats for Incubators (metal)	2.50
Connecting Rod and Nut for all Incubator Regulators	.50
Lever for all Incubator Regulators	1.00
Brackets for all Incubator Regulators	$0.35
Lamp Support for Standard Incubators	2.50
Lamp Hangers for Incubator Styles A, B, C	.50
Lamp Hanger for Incubator Styles E and H	1.50
Incubator Legs (long) 75c—Incubator Legs (short)	.35
Dampers (only) for Incubators	.25
Egg Testers	.50
Dram Caps for Incubators	.25
Filler Caps for all Standard Incubator Tanks	.35
Filler Caps for Incubator Lamp Bowls	.25
Door Catches for Standard Incubators	.25
Underwriter' Lamp Supports with Gas Heater Complete	4.50

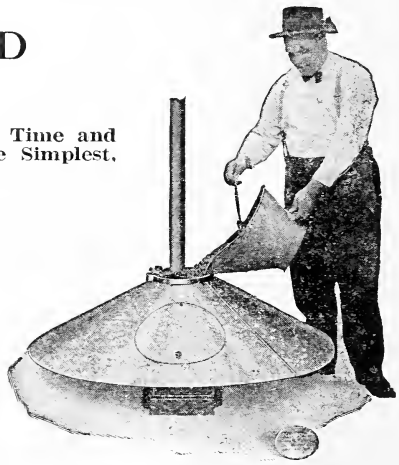
When ordering new tanks for old incubators, the order must be accompanied by the exact dimensions of the tank to be replaced. Diagrams for this purpose will be furnished on application. When ordering new parts for old incubators, always mention size and design of the incubator.

BUCKEYE COAL-BURNING STANDARD "COLONY" BROODER

SELF REGULATING—EVERLASTING

Cuts the Cost of Equipment and Operation to Less than Half—Reduces the Time and Labor to Less than a Fourth. Nothing to Break. Nothing to Wear Out. The Simplest, Safest and Most Economical Brooder Ever Invented.

These brooder stoves are efficient and satisfactory in every respect; require but little attention, can be operated anywhere; burn hard coal, coke, briquettes or gas; fill the firebox once and shake down the ashes twice a day and they require no further attention. The Hover is galvanized steel, **can be readily** raised out of the way when the stove needs attention, has no curtain to wear out or collect dust and will care for any number of chicks from one or two up to full capacity. As the Hover is open all around the ventilation is perfect and the chicks never crowd. The temperature is regulated automatically by a thermostat attached to the stove and which will hold the temperature within a range of one or two degrees at all times.



No. 25—Capacity 1200, Canopy 56 in., Wt. 109 lbs. **$34.00**
No. 19—Capacity 1000, Canopy 52 in., Wt. 95 lbs. **29.50**
No. 18—Capacity 500, Canopy 42 in., Wt. 75 lbs. **23.75**

Gas Burner for Brooder Stove: No. 25—$7.00 No. 19—$6.00 No. 18—$5.00

One length of pipe included with each brooder.

EXTRA PARTS FOR STANDARD BROODER

Water Thermostats, each	$0.50	Grate Lock	$0.50	Regulator Bolt	$0.20	Hook Rod	$0.25
Lower Regulator Arms	1.50	Shaker Handle	.50	Ash Pan	.50	Upper Flue Cylinder	5.00
Upper Regulator Arms	1.50	Stove Lid	.75	Ash Pit Door	1.00	3-inch Pipe, per length	.30
Half Grate (plain)	1.50	Check Draft Cover	.50	Baffle Plate	1.00	5-inch Pipe, per length	.35
Shaker Grate	1.50	Check Draft Protector	.50	Hover Ring	2.00	Elbows, 3 in., 25c; 5 in.	.30

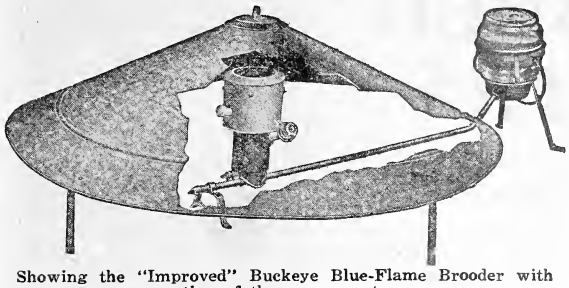
EXTRA PARTS FOR BUCKEYE BROODER

Thermometers (tested) $1.25; Lamp Bowls $1.00 Lamp Burners (No. 35) 75c; Lamp Chimneys 50c Lamp Wicks, per dozen 35c

EXTRA PARTS FOR BUCKEYE BLUE FLAME BROODERS Nos. 11 and 12

No. 134 Vaporizer	$1.00	No. 136 Outside Chimney	$0.75	No. 138 Inside Chimney	$0.75
No. 135 Burner	1.50	No. 137 Central Chimney	.75	No. 139 Chimney Cap	1.00

THE BUCKEYE "IMPROVED" BLUE FLAME BROODER



Showing the "Improved" Buckeye Blue-Flame Brooder with a portion of the canopy cut away.

OIL HEATED COLONY HOVERS

Burns Coal Oil—Has a Clean, Steady Blue Flame that Gives an Abundance of Heat. No Gas Fumes. Safe and Economical. Regulated with a Wick Guaranteeing a Continuous Oil Supply. Fill the Reservoir Every 24 Hours.

In the construction of this brooder valves of every kind have been eliminated. The burner operates on exactly the same principle as the wickless burner used in old models, but instead of feeding the oil through a valve, the oil is fed to the burner by an old-fashioned wick such as everybody understands. To start burner requires no priming; it is only necessary to open canopy and apply a match to the wick the same as you would an ordinary house lamp and it is controlled in precisely the same manner. To secure more heat wick is turned up and to reduce heat it is turned down. It requires no special education to operate it.

The efficiency of this brooder is superior to any that we have had the pleasure of handling. It not only produces a great volume of heat, but it does it with a small consumption of oil. Positively insured against the clogging of oil or flushing the burner. The large free channels guard against all chances of stopping the oil supply and a continuous supply of heat is therefore assured during every minute of the day or night. Just as long as any oil remains in the reservoir, it will feed to the burner and the system of regulation cannot go wrong.

These Brooders are made in three sizes only and the entire heating system supplied, will be made in one size only; everything the same with exception of the size of the canopy; these are made in the following diameters and are estimated to have the following capacity: No. 27, 200 chicks; No. 28, 350 chicks; and the No. 29 up to 500 chicks, and this is the size we recommend as the extra first cost is but little more than the smaller sizes and it enables you to care for any number up to capacity with practically no additional cost of operation.

If you live where it is hard to obtain a suitable fuel for Coal Burning Colony Brooder, you surely will make no mistake in the purchase of one of these new "IMPROVED."

SIZES AND PRICES

No. 27—34 inch Hover, wgt. 42 lbs. **$18.75**
No. 28—42 inch Hover, wgt. 50 lbs. **22.25**
No. 29—52 inch Hover, wgt. 60 lbs. **24.75**

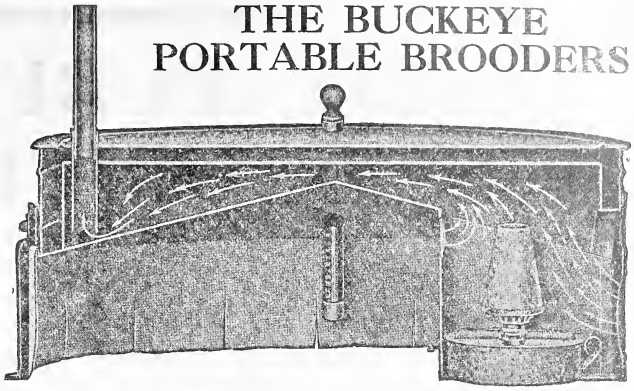
EXTRA PARTS FOR BUCKEYE BLUE FLAME BROODERS

Nos. 27, 28, 29, 28-A, 29-A

If number of machine not known, give diameter of wick when ordering

B. F.- 127—Canopy legs for No. 27 ..... $0.50
B. F.- 128—Canopy legs for No. 28 ..... .50
B. F.- 129—Canopy legs for No. 29 ..... .50
B. F.-1271—Burner with wick 5.00
B. F.-1272—Enameled burner drum 2.50
B. F.-1273—Inner perforated tube of burner drum ..... .50
B. F.-1274—Outer perforated tube of burner drum ..... .50
B. F.-1275—Glass oil tank with bail and handle $1.50
B. F.-1276—Automatic valve for glass oil tank 1.50
B. F.-1277—Supply pipe with oil cup and stand 3.50
B. F.-1278—Wick, each ..... Small, $0.50 Large, .75
B. F.-1279—Canopy lid ..... .75
B. F.-1280—Oil cup and stand 2.00

THE BUCKEYE PORTABLE BROODERS

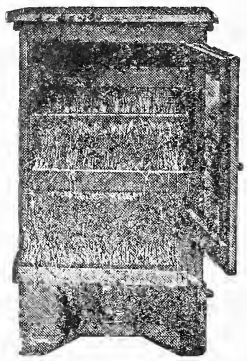


Showing a Sectional View of the "Buckeye" Brooder

The Lamp Brooder that broods like a stove Brooder. The chicks hover at the curtain, making crowding impossible. The air under the hover is drawn from the outside—then up into the upper chamber, where it is discharged through the exhaust tubes. Every particle of impurity is drawn up and out—nothing can come back. The Portable Lamp Brooders are designed to meet the needs of the poultry raiser who produces only a small number of chicks. It is smaller, more compact and has a capacity up to about 150 chicks. The body of brooder is made of galvanized iron and has a lamp chamber which is separate from the space occupied by chicks. Air is heated by passing around and over lamp and distributed equally over entire brooding chamber. Each brooder supplied with a thermometer which registers the actual temperature of brood chamber at all times.

	Regular Price	Special Price
No. 20—Diameter 19 inches, 60 chicks	$12.50	$10.00
No. 21—Diameter 22 inches, 100 chicks	16.25	14.00
No. 22—Diameter 30 inches, 160 chicks	20.00	18.00

Above Prices Are Good Only While Present Stock Lasts.



Premium Sectional Oat Sprouters

ALL METAL

A bushel of oats sprouts into three bushels of nutritious green feed. Hens lay more eggs, young chicks grow faster and are more healthy on green feed. Oats, rye and wheat can be easily and quickly sprouted and make the most economical and profitable food for winter.

Outside wall lined with asbestos—inside wall metal grain chamber, heat passing between the walls. One of the principal advantages of the Metal Sprouter is the very small floor space occupied. If an additional quantity of sprouted grain is needed, owing to an increase in the size of the flock, one or more additional sections may be added, greatly increasing the capacity without in the least enlarging the space occupied.

Small Base—¼ bu., 2 trays, 25-35 hens, wt. 25 lbs. **Price $9.00.**

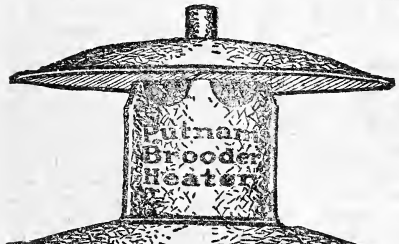
Small Section—¼ bu., 2 trays, 25-35 hens, wt. 12 lbs. **Price $3.50.**

Large Base—1 bu., 2 trays, 100-150 hens, wt. 50 lbs. **Price $17.00.**

Large Section—1 bu., 2 trays, 100-150 hens, wt. 33 lbs. **Price $7.50.**

SPROUTED OATS

INCREASE THE EGG YIELD, DECREASE THE FEED BILL



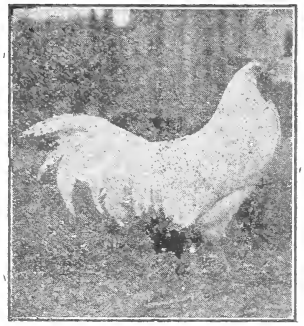
PUTMAN BROODER HEATER

You can make your own brooder out of a box, for accommodating 25 to 60 chicks, by using this heater. Heater requires filling but once a week—no other attention needed. Uses less than a gallon of oil a month. Acts like a fire-place, carrying foul air out and drawing in fresh air, perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed. Price postpaid $4.75.

LITTLE PUTMAN STOVE

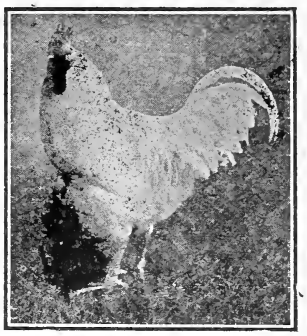
Just the thing for making a home-made oat sprouter or for warming the drinking water for poultry. Has a new principle in burner, insuring perfect combustion of oil and doubling the heat value. Burns 3 to 4 weeks without refilling or other attention. Wick never needs trimming. For heating water it can be used with a can, crock or fountain. Non-explosive—if tipped over or buried in litter it will go out. Complete directions for making oat sprouter. Price postpaid $2.50.

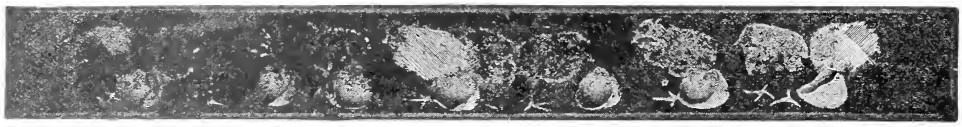
Asbestos Lighting rings for the RELIABLE OIL BURNING Brooder, 20c. Each; Dozen $2.25



PUREBRED POULTRY

COCKERELS *and* OLDER BIRDS
PULLETS *and* HENS
From the Finest Laying Strains
DAY OLD CHICKS





BABY CHICKS

Place your order now for Baby Chicks. A small deposit will secure your order. All orders are filled in rotation, according to their receipt, and we will make delivery from February 15th to June 1st.

Our Baby Chicks are from the finest laying strains—O. A. C., Hollywood and Tancred White Leghorns; Mead strain Rhode Island Reds, and O. A. C. Barred Rocks. Other breeds from best strains.

Orders for Chicks other than White Leghorn, Rhode Island Reds and Barred Rocks must be in our hands at least four (4) weeks in advance of shipment.

Write for 1926 Price List.

WHITE LEGHORN
RHODE ISLAND RED
BARRED ROCKS
WHITE ROCKS
BLACK MINORCA
WHITE MINORCA
BROWN LEGHORN
BUFF LEGHORN
ANCONA
BLACK JERSEY GIANT
LIGHT BRAHMA
BUFF ROCKS
PATRIDGE ROCKS
WHITE ORPINGTON

POULTRY

We are also booking orders for Pullets from this same stock for delivery during the season of 1926. Write for prices.

Send us your orders for Poultry, **any breed or strain**, and secure the advantage of expert, critical selection, that guarantees full value for your money. We do not depend on any one breeder, but can give you the pick of the prize-winning strains at right prices.

PRICES depend entirely upon grade of stock wanted.

For fancy exhibition stock write us your requirements. **We can fill the bill.**

"Gold Leaf" Tobacco Powder

Owners of poultry often do not realize the injury which may be done to their flocks by attacks of intestinal worms. The failure of young birds to develop properly, and an unhealthy condition of the older birds, is often caused by the presence in their intestines of poultry round worms.

As a result of extensive investigation carried on by the California Agricultural Experiment Station, it was found that tobacco dust, or finely powdered tobacco, was one of the most effective remedies against round worms in poultry which could be used; one that is uniform in strength and texture, and contains not less than 1% and not more than 1.5% of actual nicotine.

These requirements are provided in "Gold Leaf" Tobacco Powder. It is packed in 2-pound sealed paper sacks, 12 to the case, 10-pound paper sacks, 6 to case, thus assuring the poultry owner of a reliable tobacco powder of the proper kind in original factory-packed containers.

Prices: 2-lb. Pkgs. 30c each or $3.00 per doz.; 10 lb. Pkgs. $1.00 each or $5.50 per case of 6.

Leg Bands for Poultry and Pigeons

Every chicken must have a leg band on before it can be entered in a poultry show. In ordering **Leg Bands**, be sure to state size wanted, or breed of fowls bands are to be used on, and number wanted for males or females.

CHAMPION—Latest and best adjustable leg band out. Has neat, compact and smooth fastening, with no catching points; easily attached and absolutely secure. **Prices, postpaid, 12 for 20c; 25 for 25c; 50 for 40c; 100 for 65c.**

SPIRAL COLORED LED BANDS—Made like a key ring—easy to put on, nothing to catch or tear off—instantly identifies your bird as far as you can see the color. All sizes from chick to mature fowls.

Ten Colors—Red, White, Yellow, Black, Pink, Green, Brown, Purple, Light Blue, Dark Blue. **Prices, postpaid, 12 for 20c; 25c for 25c; 50 for 40c; 100 for 65c.**

Worms are Poultry's greatest Enemy

Many so-called remedies are offered and some will cause live worms to be expelled, but the expelled worms are frequently eaten by Poultry, and greater infection results than before because the worms themselves are a mass of eggs. But **BARNES WORM EMULSION** kills the worm, eggs and all, without harm to the chicken. Send for booklet giving full details. **16 oz. 60c; qt. $1.00; gal. $3.00; 5 gal. $12.50; 30 gal. $60.00.**

CHOLERINE

Millions of Baby Chicks Die Annually. White Diarrhoea kills them. White Diarrhoea is a Germ disease. Science has proven this, and has located the microbe. This disease is not only prevented but eradicated by CHOLERINE. Chick "Life Insurance" is cheaply bought by using Cholerine. Fowls fed Cholerine will keep healthier and produce more eggs during the season. The mortality will be much less and they will go through the moulting season in far better condition.

For Baby Chicks—We recommend it as a preventative and specific for white Diarrhoea, cocidiosis (bloody diarrhoea), Cholera, roup, limber neck and other germ diseases, intestinal troubles, indigestion and worms. Use it from the start as a preventative. It will pay big returns. They will brood better and have more "pep" and grow into more profitable birds.

For Laying or Breeding Fowls—Use six tablespoonfuls Cholerine to one hundred birds, a pint to five hundred birds, three days a week. Many of the largest poultrymen on the Coast and throughout the United States are continuous feeders of Cholerine. It will aid fowls to obtain full nutriment of food consumed.

Prices F. O. B. Portland—Quart $1.00; Gallon $2.50; Five Gallon Can $12.50; 30 gallon barrel $60.00.

"DIAMOND QUALITY" POULTRY FOODS

Diamond Chick Food

A Properly Balanced Ration that will make chicks grow and keep them healthy. For young Turkeys, Pheasants and all young fowls DIAMOND CHICK FOOD in unexcelled.

The select grains that are used in the preparation of Diamond Chick Food are cut by a special process, screened to a **uniform size and run through a Fanning Mill to remove the dust and meal, which is the fatal element in most Chick Foods.** After this process the ingredients are carefully weighed and mixed in correct proportions. **No guess work. Diamond Chick Food gives the chicks just what Nature intended they should have, a food** composed of grains (cracked), small seeds, bone, etc., mixed in the right proportions to produce a quick and profitable growth without loss. Convenient, always ready for use, and you can raise so many more chicks by feeding it that it is the **cheapest food you can buy. WRITE FOR PRICES.**

Diamond Baby Chick Mash

A veritable chick insurance and is a starting and developing food for chicks without an equal. **On the First Month's Feed Depends the Future Returns.**

FOR EARLY MATURITY—After the chicks are a few days old, keep Diamond Baby Chick Mash constantly before them in dry form, just as it comes from the bag, in a feeder they can get at easily without getting into.

When 48 hours old, and three times a day thereafter, throw into the litter a feed of Diamond Chick Food (allow one pint to every 50 chicks per feed, at first). Feed only as much as they will eat up clean. Also scatter in the litter a handful of chick-size grit once a day for the first few days, then keep a supply in a box or hopper **always before them.** Plenty of **fresh air, fresh clean water, fresh** finely chopped **green feed, and table scraps,** are essential at all **times.** Above all **watch** your chicks. Do not **overfeed grain or scraps,** as the Mash contains every food element necessary for perfect development. It will, if necessary, keep for months if stored in a **cool dry place. WRITE FOR PRICES.**

FOR EARLY BROILERS—Feed as for early maturity, add, when the chicks are three weeks old, an extra mid-day feed, every other day, of 50% each of finely ground cornmeal and Diamond Baby Chick Mash moistened into a crumbly mass either with water or sweet skim milk. This with two grain feeds a day, composed chiefly of Diamond Growing Food, will promote a healthy rapid growth.

Diamond Growing Food

ALL GRAIN, For quickly Developing Little Chicks Into Big Profit-Paying Broilers. Our special formula for promoting a rapid, healthy growth, and should be fed after the third or fourth week; nothing else needed; will produce large, plump "Broilers." **Write for Prices.**

DIAMOND Poultry Foods are manufactured from choice, clean, wholesome material. They are made to a standard and are the result of a lifetime of careful study and experiments by a thoroughly practical expert, who is a recognized authority on feeding.

Our trade mark on every original package is your protection. Demand it of your dealer.

Diamond Scratch Food

ALL GRAIN

Complete, economical and satisfactory for every feeding requirement from the three-weeks-old chick to mature fowls. A perfect "working ration" for fowls. Carefully prepared in correct proportion, the "hen's delight."

When fed in conjunction with Diamond Egg Food a scant allowance scattered in the scratching material in the morning keeps the hens busy hunting for the grains. In the evening feed sufficient that hens may go to roost with crops full. Diamond Scratch Food can be fed to young chicks at three weeks and has every element necessary to hasten normal growth and build up bone and flesh. **A rich, nourishing food they greatly relish. Write for Prices.**

Meat Scraps

DIAMOND BRAND—A new meat product, perfectly prepared, fine ground and clean. **Write for prices.**

Meat Meal

DIAMOND BRAND—Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and ground; unexcelled for egg-production. **Write for Prices.**

Blood Meal

DIAMOND BRAND—The most highly concentrated egg-producer on the market. To be trated egg-producer on the market. To be fed in soft food. Unexcelled forcing growth or as an egg food. **Write for Prices.**

Bone Meal

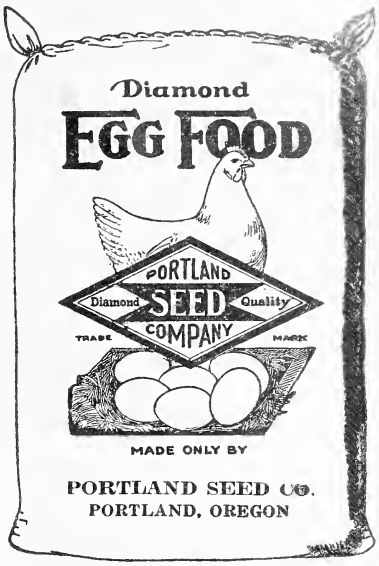
DIAMOND BRAND—Finely ground from hard white bones, and of a superior quality. This is used by Poultrymen in their feeding mash for laying hens. **Write for Prices.**

Granulated Bone

DIAMOND BRAND—Made from selected hard white raw bones, and of a superior quality; indispensible for laying hens. **Write for Prices.**

Fish Meal

A fine-ground, pure, sweet fish meal, containing protein—feed as you would meat meal; a rich, wholesome food. **Write for Prices.**



Diamond Egg Food

A LAYING MASH

Makes hens lay when eggs are high. keeps poultry healthy. Unequaled for feeding young chicks. A complete ground food to be fed dry or wet Starts hens laying and **keeps them at it.** Hastens moulting. Puts poultry in prime condition.

No Drugs—No Stimulants—but a rich, wholesome nourishing food for growing fowls and hens, encouraging rapid growth and increasing egg production. Can be fed dry or as a mash and is the most successful combination of egg producing elements. Feed **Diamond Egg Food** to the hens in your breeding pens and they will produce eggs of strong vitality that hatch into sturdy chicks. **Write for prices.**

Powdered Buttermilk

The pure solid content of the liquid buttermilk, with only the water taken out and nothing else added. It contains all the food elements of the liquid buttermilk but the process of drying puts it in a convenient form that will keep indefinitely and can be hauled long distances with only moderate freight charges. Can be used just when needed and with no waste from spoilage or slopping. **Write for Prices.**

Semi-Solid Buttermilk

This is creamy buttermilk condensed to a thick semi-solid paste. See page 88 for description and prices.

ALFALFA MEAL

A substitute for green food for winter feeding. Can be mixed with dry or wet mash.

ALFALFA LEAVES AND BLOSSOMS

The best substitute for green food for Winter feeding; helps keep the egg basket full. mixed with the soft feed is good for large or small chicks; endorsed by leading experts. **Write for Prices.**

OIL MEAL

Soy Bean Meal.
Linseed Meal, Old Process
Cocoanut Meal.
Cotton Seed Meal. Write for Prices

DIAMOND CRYSTAL GRIT

Two sizes, chick and hen size. We send hen size unless otherwise ordered. Write for prices.

OYSTER SHELLS, CRUSHED

Clean stock, free from dust and waste. Two sizes: coarse and fine.

DIAMOND Oyster Shell ... 6 lbs. 25c
OREGON Oyster Shell.....7 lbs. 25c

CHARCOAL

Prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion. Write for Prices.

POULTRY PEPPER COMPOUND

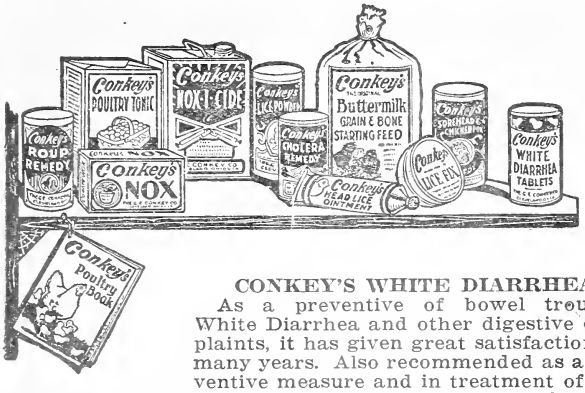
A tonic and invigorator; ground. 1 lb. 25c.

POULTRY MINERALS

Blatchford's, 100 lbs. $5.50, F. O. B. Portland.

BLATCHFORD'S CHICK MEAL

See Page 88 for Prices.



HAVE A "CONKEY CORNER" IN YOUR POULTRY HOUSE

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of BEING PREPARED. For more than twenty-five years Conkey has been THE POULTRY DOCTOR. Take his advice.

CONKEY'S POULTRY BOOK FREE if you call at our store, or mailed for 6 cents in stamps.

CONKEY'S WHITE DIARRHEA

As a preventive of bowel troubles, White Diarrhea and other digestive complaints, it has given great satisfaction for many years. Also recommended as a preventive measure and in treatment of coccidiosis, a diarrhetic condition which attacks chicks similarly to White Diarrhea, but which differs in that a principal symptom is bloody droppings rather than white. **Pkgs. 30c, 60c, $1.20; or 35c, 65c, $1.30 postpaid. Breeder Size (1200 Tablets), $4.00; or $4.10 postpaid.**

CONKEYS ROUP REMEDY—

When Roup breaks out there's no time to experiment—start treatment at once—the disease is very contagious. Always at the first sign of "roupy weather" place Conkey's Roup Remedy in fountains—it's a great preventive. **Pkgs. 30c, 60c, $1.20; or 35c, 65c, $1.30 postpaid; 1½ lb. can $2.50 postpaid; breeder size (5 lb. can) $5.75 postpaid.**

CONKEY'S ROUP PILLS—

For treating individual cases and for use at shows when birds develop colds. These pills have saved many a valuable bird. **Pkgs. 30c, 60c, $1.20; or 35c, 65c, $1.30 postpaid; breeder size (1000 pills) $3.00; or $3.10 postpaid.**

CONKEY'S CANKER & BRONCHITIS REMEDY—

Checks cankerous growths and sores and soon restores the bird to normal. **Pkg. 60c; or 65c postpaid.**

CONKEY'S CHOLERA REMEDY—

So-called Cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water.

Pkg. 30c, 60c, $1.20; or 35c, 65c, $1.30 postpaid; breeder size (5 lbs.) $3.00; $3.15 postpaid.

CONKEY'S POULTRY TONIC—

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkey's Poultry Tonic helps birds to get more out of their feed; they produce more eggs and better flesh on LESS FEED, through better digestion and assimilation.

Pkg. 1½ lbs., 30c; 3¼ lbs., 60c; 7 lbs., $1.20; pails, 12 lbs., $2.00; 25 lbs., $3.50; bags, 50 lbs., $6.00; 100 lbs., $11.00; F. O. B. Portland.

CONKEY'S GAPE REMEDY—

Comprises two powders—both in same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers.

Pkgs. 30c, 60c; or 35c, 65c postpaid.

CONKEY'S POULTRY CONDITIONER—

Highly concentrated fowl-regulator, blood-purifier and nerve food, to build up birds in a run-down condition or for fowls recovering from disease.

Pkgs. 30c, 60c; or 35c, 65c postpaid.

CONKEY'S SCALY LEG REMEDY—

This ointment applied to birds' legs in a few treatments will kill the parasites responsible for the trouble and heal up the leg with a healthy lustre. **Pkg. 30c; or 35c postpaid.**

CONKEY'S LIMBERNECK REMEDY

This remedy should be on hand at all times as Limberneck must be treated promptly.

Pkg. 60c; or 65c postpaid.

CONKEY'S Y-O. YEAST WITH COD LIVER OIL—

Made to supply vitamins A, B and D which are essential to the life of poultry and live stock. The Conkey process seals the cod liver on the yeast so that the potency of the cod liver oil is preserved. Conkey's Y-O should be added to every feeding ration, whether for poultry or stock.

Pkgs. 1 lb., $1.00; 2 lbs., $1.75; 5 lbs., $4.00; or $1.10, $1.85 and $4.20 postpaid. The following larger sizes: F. O. B. Portland, 25 lb. drum, $18.75; 50 lb. drum, $32.50; 100 lb. $60.00.

CONKEY'S STOCK TONIC—

Pkgs. 30c, 60c, $1.20; pails, 12 lbs. $2.50; 25 lbs. $4.25; bags, 50 lbs. $6.25; 100 lbs. $11.50 F. O. B. Portland.

CONKEY'S LICE POWDER (Contains Sodium Fluoride)

For dusting hens, nests, growing chicks—wherever body lice must be overcome.

Pkgs. 25c, 45c, 90c; pails, 12 lbs. $3.00; 25 lbs. $5.75. F. O. B. Portland.

CONKEY'S HEAD LICE OINTMENT

For overcoming and preventing the murderous head louse which "eats up" baby chicks.

Pkgs. 15c, 30c; or 20c, 35c postpaid.

CONKEY'S LICE FIX

A preparation in ointment form for fighting body lice. One application lasts a month.

Pkgs. 30c, 60c; or 35c, 65c postpaid.

CONKEY'S MITE LIQUID

For painting roosts, fittings, inside of house, nest boxes and wherever mites congregate. **Cans, qt. 60c; 2 qt. 90c; gal. $1.50; 5 gal. $7.00. F. O. B. Portland.**

CONKEY'S SOREHEAD REMEDY

For sorehead or chicken pox, pigeon pox, warts and pain. Attacks trouble from two angles—a powder for the blood and a salve for the sores.

Pkgs. 30c, 60c; or 35c, 65c postpaid; breeder size, $3.50; $3.65 postpaid.

CONKEY'S BLACKHEAD REMEDY

Turkey breeders should have package on hand as Blackhead is deadly in advanced stages. **Pkg. 60c; or 65c postpaid.**

CONKEY'S POULTRY WORM REMEDY

This prescription rids birds of many troublesome worms, thus promoting a return to healthy conditions. **Pkgs. 30c, 60c; or 35c, 65c postpaid; breeder size, $2.75; or $2.85 postpaid.**

CONKEY'S POULTRY LAXATIVE

Experts say, and we have found through experiments, that a poultry laxative given every week or two not only keeps the birds in better condition but also increases the egg yield very materially.

Pkg. 30c, 60c; or 35c, 65c postpaid; breeder size, $2.75 or $2.90 postpaid.

Conkey's NOX-I-CIDE

DIP AND DISINFECTANT

Every poultry yard, farm, home factory, stable, store, office building—in fact, every place where sanitation is necessary to health—needs Conkey's Nox-i-cide every day in the year.

For spraying during the "weekly clean-up," as a preventive of disease and a help in keeping down red mites, ticks, blue bugs, etc. Very effective for washing incubators, brooders, fountains and other utensils. Widely used and highly recommended as a dip for hogs, sheep, cattle and other animals.

Try Conkey's Nox-i-cide for household uses—for assisting in driving out ants, destroying odors, routing out bedbugs and cockroaches, for making sinks, cess-pools, garbage containers, etc., sanitary and safe.

PRICES—Pint 50c; Quart 80c; ½ Gallon $1.30; Gallon $2.00; 5 Gallons $9.50; 10 Gallons $18.00 F. O. B. Portland.

Conkey's FLY KNOCKER

FOR COWS AND HORSES

Dairymen, horsemen, cattlemen and sheep raisers declare this to be the best investment they make—animals free from insects do better in milk and butter fat production, while growing stock unquestionably fattens faster when relieved from disease-spreading insects.

Conkey's is not a "cheap" product when the price is compared with inferior imitations, but many declare it to be very economical because of its superior lasting qualities.

PRICES—Cans, qt. 70c; ½ gal. $1.15; gal. $1.75; 5 gal. $8.00; 10 gal. $15.50. F. O. B. Portland.

Kill Rats and Other Rodents with ZELIO

ZELIO
Makes Them Seek the Open Air.
No Hunting in Holes for Dead Rodents.

Zelio is a powerful poison prepared by the Bayer Company. It is without taste or odor, does not make the bait unpalatable, produces no change in the bait and acts slowly giving the animal time to leave the premises. Its effect is the same whether a quantity sufficient to cause death is taken in one dose or a little at a time. Does not cause vomiting. Affects the milk of the mother, poisoning the young rats or mice. Renders the flesh of its victim poisonous so one dead rat may be fatal to many of its cannibal fellows. Produces difficulty in breathing so the victim seeks relief in the open air instead of dying in its hole.

8 oz. can Zelio Paste $1.50. 2 oz. tube Zelio Paste 50c.

RAT-NIP

One of the greatest and most effective rat exterminators ever known. Rats and other rodents like it—can't resist it—and none escape.

Price: Tube 35c, Postpaid 40c.

LEE'S FOODS AND REMEDIES FOR STOCK AND POULTRY

THE GENUINE MERIT of the LEE FOODS and REMEDIES is their best guarantee, and you can depend upon them absolutely to do all that is claimed for them. The valuable booklets of the Lee Company are free to poultry keepers and stockmen, and contain reliable and complete information to date on poultry and stock feeding problems. We mail them on request.

Lee's Liquid Lice Killer

FOR 20 YEARS THE STANDARD

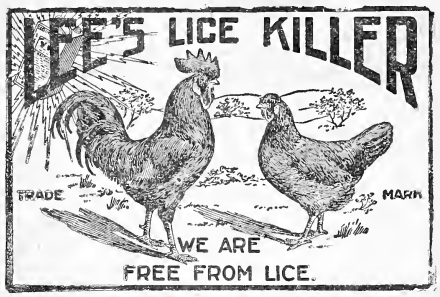
Destroys either by vapor or contact. No trouble to apply; just paint the roosts or wall at night. Rids poultry and houses of all vermin; is prepared exclusively for this purpose. **Qt. 60c; ½ gal. 90c; gal. $1.50; 5 gals. $6.00.**

Lee's Germozone

Regular use of Germozone insures BETTER health; BETTER chicks; BETTER layers; and the RIGHT kind of BREEDERS. Use it for Bowel Complaint in little chicks; for Cholera, Roup and other diseases among the older fowls; and regularly TWICE-A-WEEK for ALL fowls. It prevents contagion, tones the system, and insures BETTER health for the entire flock. **Liquid, not prepaid, 4-oz. bottle 40c; 12-oz. 75c; 32-oz. $1.50; gal. $4.50; tablets, postpaid, pkg. 75c.**

LEE'S EGG MAKER is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition. **2-lb. pkg. 50c.; 5-lb. pkg. $1.00; 25-lb. pail $4.25.**

LEE'S HEADLICE OINTMENT—For little chicks. **Large box, 15c.**



LEE'S WHITE DIARRHOEA REMEDY—The best medicine for this dangerous disease of little chicks. **Wt. 2 lbs., 12-oz. bottle, 50c.**

LEE'S HOG REMEDY—Cures all diseases of hogs and keeps them healthy. **7½-lb. pkg. $1.50; mailing weight 9 lbs.; 25-lb. pail, $4.00.**

LEE'S DIP—For lice, ticks, mange, itch or scab, on cattle, sheep and hogs. **Qt. 75c; ½ gal. $1.25; gal. $2.00; 5 gals. $8.00. Mailing weights: Qt. 3 lbs.; ½ gal. 5 lbs., gal. 10 lbs.**

LEE'S WORM POWDER—For horses, cattle, sheep and hogs. Safe and sure in results. **Pkg. 35c; wt. 1¼ lbs.**

LEE'S LOUSE POWDER—**1-lb. can. 30c.**

LEE'S BEST CONDITIONER STOCK FOOD—Promotes good health, digestion and assimilation. **7-lb. pkg. $1.50; 25-lb. pails $4.50.**

LEE'S PEERLESS GOPHER KILLER—For killing gophers, squirrels, etc. Sure death. **Qt. can, wt. 3 lbs., 75c.**

LEE'S PEERLESS BUG KILLER—**Wt. pkd., 2 lbs.; 12-oz. bottle 35c.**

LEE'S SMOKE FLAVOR—Hickory Smoke Extract applied to meat preserves it indefinitely, imparting the delicious flavor that is only otherwise obtained by smoking with green hickory. **12-oz. bottle, wt. pkg. 2 lbs., 50c; 32-oz. bottle $1.00.**

LEE'S FLYO-CURO—We sell thousands of cans of this fly spray every season, and it gives good satisfaction. **Qt. 60c; ½ gal. 90c; gal. $1.50; 5 gals. $7.00; mailing weights, qt. 2 lbs.; ½ gal. 5 lbs.; 1 gal. 10 lbs.**

LEE'S GARDEN INSECTICIDE—(Non-poisonous)—This is a new addition to the famous "Lee Line" of insecticides. We recommend "Lee's Insecticide" as one that is suited to the needs of the average gardener, and one that is garanteed to give satisfaction. **1 lb. sprinkler top can. 30c; 2 lb sprinkler top can, 50c.**

EGG-O-HATCH and EGG-O-LATUM

DON'T GET THE TWO NAMES MIXED

Egg-o-hatch is a dry powder. It is mixed with water and the resulting liquid is applied to eggs two or three times during the 21 days of incubation. It is a liquid that does three things—supplies oxygen for the growing chicks; absorbs carbon dioxide given off; makes more brittle and porous the shell of the egg. **Price 55c; postpaid. Will treat 600 eggs.**

Egg-o-latum is a white cerate. Rubbed over the shell of the egg it seals every pore so no air, moisture, odors, or germs can get in. Preserves the egg in all its original freshness. The application of Egg-o-latum is easily and quickly done. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertile ones are best. One package treats 50 doz. eggs. **Price 55c, postpaid.**

PRICES ON THIS PAGE F. O. B. PORTLAND WHEN NOT OTHERWISE STATED

MANN'S GREEN BONE CUTTERS

THE ONLY ONES THAT WILL CUT GREEN BONES AND NOT CLOG

The Mann's Green Bone Cutter is offered on a warranty to produce a perfectly edible food, with no waste, from any lot of green bones, with less labor, and less annoyance than any other bone cutter. The Mann's has a self-governing feed, producing uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set it for.

No. 5—Has four knives, large solid cylinder, patent automatic governing spring feed which makes it one of the best low-priced bone cutters ever offered. We can furnish with crank, balance wheel, or mounted on iron stand.

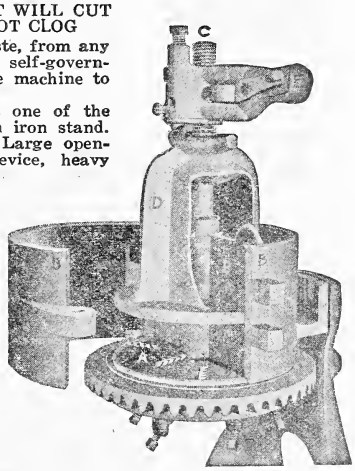
No. 7—The New No. 7 is mounted on a strong iron stand, patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, six knives, gear guard, anti-clog device, heavy balance wheel.

No. 7½—To run by hand or power without any change. The particular advantage of the 7½ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7.

No. 9—Intended for flocks of 100 to 300 hens. Similar to No. 7 but has larger cylinder, greater holding capacity, larger table, etc.

MANN'S No. 12—POWER—Strictly a power machine. Capacity 120 to 150 pounds per hour. Horsepower required, one to two.

No. 15—Similar to No. 12 but much larger and heavier, with more belt power. Cylinder is twice as deep; capacity 150 to 250 lbs. per hour. Takes almost any size bones.

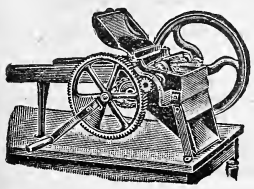


MANN'S CORN SHELLER—Best low-priced corn sheller made. A profitable tool if you have corn to shell. Weight 10 lbs. **Price $3.75.**

MANN'S CAST IRON MORTAR—For breaking glass, crockery ware or oyster shells. Weight 33 lbs.; height 12 inches; 9 inches square; pestle 4 feet long. **Price $4.00.**

Styles		Price	Wgt.
No. 5G	(with crank handle)	$15.00	30
No. 5B	(with balance wheel)	18.50	55
No. 5BM	(B.W. and iron stand)	24.00	80
No. 7	(B.W. and iron stand)	27.50	107
No. 7½	(hand or power)	42.00	150
No. 9	(hand)	44.00	170
No. 12	(power machine)	70.00	260
No. 15	(power machine)	136.00	420

"NEW MODEL" CLOVER CUTTER FOR POULTRY

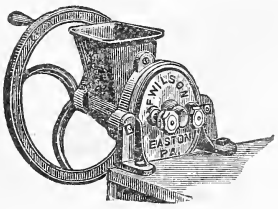


Cuts either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into ⅛ inch lengths.

Made only of iron and steel, a strong feeder, large capacity, runs unusually easy will do perfect work indefinitely.

The Cutting Mechanism is the most vitally important part of a Clover Cutter. The "New Model" admits of perfect cutting at all times, because cutter bar is adjustable, easily accessible, and the four 7-inch spiral steel knives can readily be removed for sharpening. Length over all 28½ inches. Weight 70 pounds. **Price $18.00.**

WILSON'S DRY BONE MILL No. 1



This is a practical mill, grinding all kinds of shell, crockery, grit, burnt dry bone, feed, etc., coarse or fine. Weight 38 lbs. Price $6.25.

New Parcel Post Egg Crate

The Strongest, Lightest Egg Carrier
You can mail eggs in this crate 150 miles with return of crate for 3¼ cents a dozen.
Size—12 doz. Without fillers, 75c; with fillers, 90c.

Egg Cases

30-doz. size, with fillers. Each 70c.

EGG CASE FILLERS
Packed in cases containing fillers for 12 30-doz. cases. Per Case $3.35.
Fillers for 1 30-doz. case. 35c.
Fillers holding 3 doz. each. Ea. 5c.

KANT-KRACK FOLDING EGG BOX

Portland Seed Co. Portland Oregon

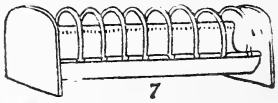
The Kant-Krack Egg Box is specially designed for the safe delivery of valuable eggs for hatching and is a great favorite with poultrymen.

Made of heavy corrugated paper. Only a few seconds work to set the box up, pack it with eggs, and address it. These boxes are light but very strong, being firmly braced, and will stand the weight of several hundred pounds without crushing.

No.	Size	Wt.	Each	Six	Doz.
3	15-Egg	1 lb.	$0.20	$1.15	$2.00
4	30-Egg	1½ lb.	.35	1.95	3.75
5	50-Egg	2 lb.	.50	2.75	5.00

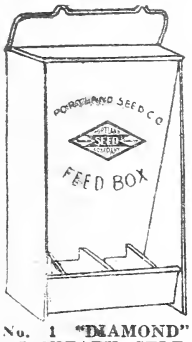
Ideal Paper Egg Boxes

Intended for use in delivering eggs to private families. Nicely printed with a blank space for your name & address. Wt. 12 lbs. per 100
Prices: 1-dozen size, 20c dozen; $1.10 per 100; $10.00 per 1000
Sample box by mail 5c.

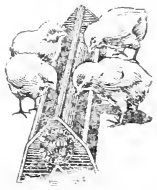


No. 7 WIRE COVERED FEEDER—A practical, convenient feeder for young chicks. Durable and easily cleaned. 12 in. **Each 50c.**

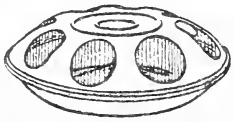
POULTRY FEEDERS AND FOUNTS



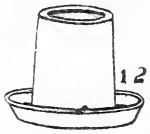
No. 1 "DIAMOND" SANITARY SELF-FEEDING BOX — Heavy galvanized iron; soon pays for itself in preventing waste of feed. Keeps grit, shells and charcoal before the fowls at all times.
Three Compartments. Wt. 2½ lbs. **$1.10.**
Two Compartments, large size. Wt. 3 lbs. **Each $1.45.**



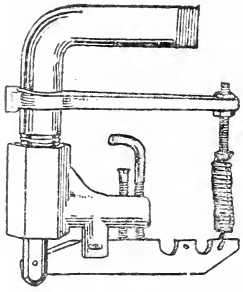
McCANDLISH CHICK FEEDER — Revolving rod, prevents chicks perching on it, making feeder sanitary, has adjustable partitions for feed, also ideal for drinking receptacle. Galv. iron, no rough edges, cannot capsize.
20 inch, wt. 3 lbs. **50c.**
30 inch, wt. 4 lbs. **75c.**



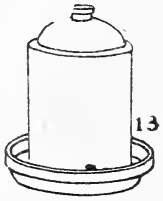
CIRCULAR CHICK FEEDER — Heavy galvanized iron, cover fits tight and chicks cannot climb in. Convenient and economical.
8 holes. **Each 15c.**
12 holes. **Each 25c.**



No. 12 GALV. IRON FOUNT—Easily filled, cleaned and kept clean. Medium size. Wt. 1 lb.
Each 35c

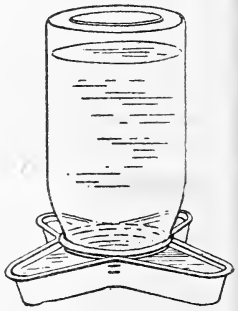


"GUARANTEED" AUTOMATIC WATER FOUNTAIN
Especially designed for poultry, can be attached to any water line, tank or barrel. Operated by gravity pressure of drinking pan, supplies fresh water to fowls automatically. **$1.50 each or $1.60 postpaid.**



SANITARY STONE FOUNTAIN — Strong, well finished; made in two pieces. They keep the water cool. Easy to handle and clean.
½ Gallon 65c
1 Gallon 75c
2 Gallon.....$1.25

See page 82 for Leg Bands

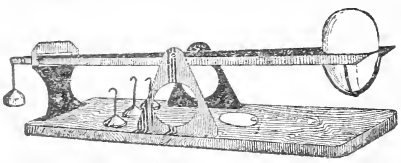


STAR FOUNTS AND FEEDERS — One solid piece of pressed metal, holds a Mason quart jar, has more available space for drinking or feeding than other feeders of this class.
Without Jar
Each 10c

THE ECONOMY TRAP NESTS
It is a known fact that the successful poultryman of today is the one that trapnests his birds. There is no guess work. You know. Plans for a successful, one-hen trap nest that can be manufactured for about 15c worth of material. A child can make one from this plan. You should have them for your whole flock. **Plans, postpaid, only $1.00.**

WIRE HEN'S NESTS
Strongly made; very durable; fasten to the wall; no harbor for vermin. Wt. 10 oz. each. **Each 25c; doz. $2.75.**

NEST EGGS
CHINA—Best grade Opal Eggs. Wt. doz. ¾ lb. **Each 5c; 12 for 35c.**
LIME NEST EGG—Superior to China, not so cold, and are indestructible. Wt. doz. 2 lbs. **Each 5c; doz. 40c.**



GILT EDGE EGG SCALE
Simple in construction, easy to operate, graduating by the ounce per dozen. **Price $1.75 or $1.85 postpaid.**

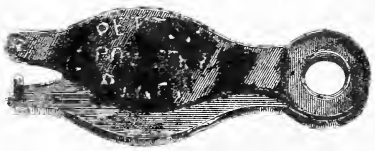
THE LINCOLN EGG SCALE
Price 50c, or 60c postpaid.

THERMOMETERS

FOR INCUBATORS—TESTED
"Buckeye." Tested. **Each, $1.00.**
Fig. 10—Straight; metal back. **Each 90c.**

FOR BROODERS
Buckeye—For Nos. 20, 21, 22. **Each $1.25.**
Fig. 2—For any style brooder. **Each 25c.**

HOUSEHOLD
Metal Back. Wt. ½ lb. **Each 50c.**



PETTEY'S POULTRY PUNCH
Can be put on a key ring or used for a watch charm. Will not clog. **25c postpaid.**

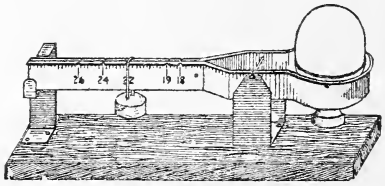
SCISSOR POULTRY PUNCH
Strong. Cuts clean. **15c; postpaid 20c.**

RELIABLE POULTRY MARKER
For marking web between the toes. One of the handiest. **Postpaid 35c.**

RABBIT DISHES
Earthenware Rabbit dishes have incurved edges that prevent them from rooting out their food. Very serviceable. **Price, 6-inch, 20c each; 8-inch, 25c each. Cannot be mailed.**

BREEDER'S MAGIC EGG TESTER
No light. No electricity. No expense and lasts a lifetime. **Shows the hatchable eggs before incubation. Price each, $2.50.**

BUCKEYE EGG TESTER
Cheap but practicable. **50c postpaid.**



CHAMPION EGG GRADING SCALE
Patent applied for

Improved type, grades with eggs in any position. Meets all requirements, grading pewee, pullet and standard eggs. Solid brass, will not get out of order; no loose parts to get lost. **Each $2.00; postpaid $2.10.**

TRADE MARK CA WOOD PRESERVER REGISTERED U.S. PATENT OFFICE

C-A-WOOD PRESERVER

TRADE MARK CA WOOD PRESERVER REGISTERED U.S. PATENT OFFICE

STOP THAT ROT

Can Be Applied With Brush, Swab, Sprayed or Dipped

(Carboleum-America)

You can insure your timbers against decay by applying "C-A-WOOD-PRESERVER" which will double the life of the timbers, thereby preventing costly renewals and repairs.

"C-A-WOOD-PRESERVER" (Carbolineum America) is the highest grade wood preserver on the market today, and the only one sold with an affidavit guaranteeing you superior quality. Don't confuse "C-A-WOOD PRESERVER" with ordinary creosote oil, but buy your wood preservative according to quality—not price. Get results—not failures.

"C-A-WOOD-PRESERVER" has been successfully used for many years on all timbers.

Among the largest users of "C-A-WOOD-PRESERVER" are the Railroad Companies, for treating railroad ties and bridge timbers; Telephone and Telegraph Companies, for treating poles and cross arms. Used in treating timber of all kinds exposed to the weather or the ground. Recommended for farms, treating fence posts, buildings and especially recommended for

POULTRY HOUSES AND STABLES can be made proof against vermin and disease for at least five years if thoroughly treated inside. This oil preserves wood by disinfection and in the same manner keeps down lice and mites. For this purpose it is worth 100 times its cost, and no poultry grower will ever be without it, once it is tried. It will in a great measure prevent all disease around any building where animals are kept if used every few years.

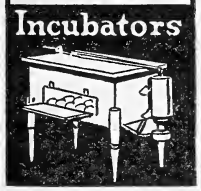
SHINGLE ROOFS can be given a nut brown color and be made to last 50 years if coated every five or ten years with this preserver. The shingles will not curl.

Prices: Qts., 75c; Gal. $1.75; 5 Gal., $7.50; F. O. B. Portland

Portland Seed Company, Portland, Ore., Distributors for Northern California, Oregon, Washington and Idaho.

B-K Bacili-Kil

DESTROYS FOUL ODORS



DISINFECTANT—DEORDORANT—ANTISEPTIC—NOT A POISON

Powerful—By Government method test B-K has over ten times greater germ-killing strength than carbolic acid. Much stronger than coal tar disinfectants—much safer.

Clean—B-K is colorless, leaves no stain on floors or walls.

Deodorant—B-K destroys foul odors—leaves no odor of itself. Does not soil animal's hair.

Safe—B-K contains no poison, acid nor oil.

Cheap to use—B-K is so much stronger than other disinfectants that more water is used. It goes farther.

SAFE—CLEAN—POWERFUL—SAVES TIME—SAVES LABOR

"BACILI-KIL" is a combination of hypochlorites stabilized by electrolosis. In our limited space, we cannot tell you all of its many uses. Ask for Special Booklets. **Prices, F. O. B. Portland: 1 gal. jug, $3.00; 5-gal. carboy, $12.50.**

Wyandotte Sanitary Cleaner and Cleanser

A cleaner especially prepared for creamery, cheese factory and dairy purposes, and is entirely different from what are commonly known as dairy cleaning agents. It is manufactured according to the latest scientific facts as applied to diary cleaning, and for this reason it will accomplish many acts wholly impossible with the ordinary cleaners, or in fact any other article on the American market.

It contains no grease. It makes no suds. It has no soapy smell. It is pure and purifying. It cuts the butter fats and milk solids quickly and thoroughly, making everything sweet, clean and sanitary. **5 lbs., 50c; 80-lb. keg, $6.50 each, F. O. B. Portland.**

TARX

For Dipping Cattle and Sheep

For Spraying Hog and Poultry Houses

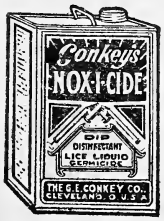
Keeps Barns Sanitary

A Solidified Soluble Coal Tar Disinfectant

A new and better Dip and Disinfectant in a handy, cheap form. Not only handier and cheaper, but stronger and more efficient. Does the work of five times its weight in liquid. Just crush a small cube of Tarx in a gallon of water and you have a gallon of the best dipping and disinfecting solution. Each cube makes a gallon. No measuring, no mistake, no breakage, leakage or waste. The right strength every time.

It keeps indefinitely; never loses strength; is not affected by heat or cold. Each 5-lb. cake is marked off in 150 cubes, enough to make 150 gallons. Use it for dipping cattle and sheep, spraying hogs, spraying poultry houses. Keeps barns sanitary. Cleans foul places that breed disease. Dissolves readily in water and can be used in any spray pump. Send for special booklet. **1 lb., 50c; 5 lbs., $2.00. Postage extra.**

A 40 Lb. PACKAGE MAKES 1200 GALLONS



Conkey's NOX-I-CIDE

DIP AND DISINFECTANT

A preventive of disease and a help in keeping down red mites, ticks, blue bugs, etc. Very effective for washing incubators, brooders, fountains and other utensils. Widely used and highly recommended as a dip.

Try Conkey's Nox-i-cide for household uses, driving out ants, bedbugs and cockroaches.

PRICES—Pint 50c; Quart 80c; Gallon $2.00; 5 Gallons $9.50; 10 Gallons $18.00. F. O. B. Portland.

KOW - KARE

Makes Poor Cows Good—Good Cows Better, and Makes More Money for Cow Owners.

"The Home Cow Doctor"

A handbook for cow owners, describing diseases that effect a cow's productivity and telling how to prevent and cure them in a single cow or a whole herd. **Free on request.**

KOW KARE (originally Kow Kure) is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a specific remedy especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caked Udder, Bloating, Red Water, Swelling of Bag, etc. It prevents abortion and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off feed," and keeps them healthy. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It is the diaryman's gold mine, and a sure profit-payer. **Medium cans, Mail wt. 2 lbs., Price 65c.; Large cans, Mail wt. 4 lbs., $1.25.**

SO - BOS - SO

Protects Stock From Torture of Flies

Your cows will give more milk—your horse will do more work on less feed if protected by So-Bos-So at a cost of less than ½ cent a head per day.

Horses hitched or harnessed will stand quietly or work in comfort if protected by So-Bos-So, and many runaways will be avoided.

Easily and quickly applied with a hand sprayer, cloth or sponge and is the only really efficient "fly bouncer" that we have ever seen. **Be sure to look for the trade-mark as there are many preparations offered that prove disappointing.**

Gallon cans, wt. 10 lbs., each.....$1.60
Half-gallon cans, wt. 5 lbs., each..... 1.00
Quart cans, wt. 3 lbs., each..... .65

American Dairy Association Remedies

BAG BALM—A soothing, penetrating ointment for all affections of the bag. **Wt. 8 oz. pkg. 60c, postage extra.**
GRANGE GARGET CURE—An unsurpassed and positive cure. **Wt. 2 lbs. can 65c, postage extra.**
HORSE COMFORT—For wire cuts and flesh wounds. **30c bottles—wt. 1 lb. 60c; bottles—wt. 2 lbs., postage extra.**
AMERICAN HORSE TONIC—A general improver for horses. **30c boxes—wt. 1 lb.; 65c boxes—wt. 2 lbs., postage extra.**

SEMI-SOLID BUTTERMILK

This is creamery buttermilk condensed to a thick semi-solid paste. In this form it has the greatest possible feeding value. For hogs in building and fattening for the market. For poultry it will keep the flock up to its highest point of health and egg laying efficiency. Feeding poultry Semi-Butermilk will keep them practically free from worms. For baby chicks it should be the first food that goes into their system.

Mortality will be reduced greatly by its use. **Write for booklet of instructions.**

PRICES

5 gallons	**$ 3.75**
10 gallon keg	**6.00**
½ barrel (30 gallons)	**14.50**
Barrel (52 gallons)	**23.50**

F. O. B. Portland

Blatchford's Calf Meal

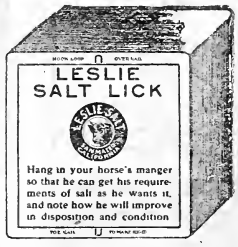
The Complete Milk Equal is in reality a substitute for milk—and should not be considered as an ordinary "feed" or "meal." It contains all the elements of milk—"baby food" for calves, absolutely the **only** milk-substitute that contains in proper proportion the elements necessary for rapid and healthy growth, and the only calf meal that is thoroughly cooked and prepared for easy digestion.

In 100, 50 and 25-lb. bags. 100 lbs makes 100 gallons of Complete Milk-Equal.

	10 lb.	25 lb.	50 lb.	100 lb.
Calf Meal		$2.00	$3.15	$6.25
Chick Mash	$0.90	1.95	3.05	6.05

F. O. B. Portland Subject to Market Changes.

LESLIE SALT



The prepared bricks on account of shape, size and hardness are found to be the most economical method of salting stock. They come in 5 and 10 lb. cubes but can be cut with a carpenter's saw into smaller pieces. The half ground salt comes in 50 and 100 lb. bags and is found valuable for certain domestic uses.

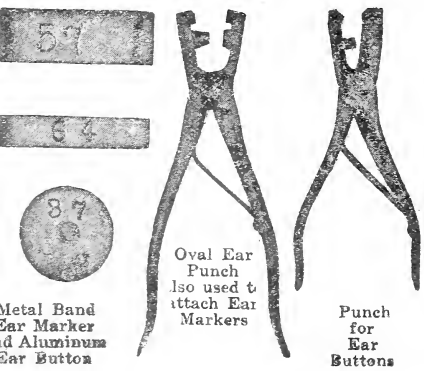
Prices: F. O. B. Portland, if mailed, Postage Extra.

Half Ground, 100 lbs.	**$0.90**
Half Ground, 50 lbs.	**.50**
Comp. Bricks, 10 lbs.	**.20**
Comp. Bricks, 5 lbs.	**.15**

Blatchford's Cattle Minerals

For toning up the system, keeping cattle and stock in excellent condition. Write for descriptive folder. **100 lbs. $5.65 f.o.b. Portland.**

BLATCHFORD'S POULTRY MINERALS
100 lbs. $5.50 f. o. b. Portland



MARKERS FOR CATTLE, SHEEP AND HOGS

Metal Ear Labels and Ideal Ear Buttons are satisfactory and easily applied marks of identification that are indispensable to breeders and stockmen. Your name and address on one side, number on the other.

METAL EAR LABELS

Not more than ten large letters can be used on the hog and sheep size; 15 large letters on cattle size or 22 small ones.

Prices—Two sizes.	Sheep and Hog	Cattle
100 with name and number	**$1.75**	**$2.25**
50 with name and number	**1.25**	**1.50**
25 with name and number	**.85**	**.90**
100 with name only, or No. only	**1.25**	**1.75**
50 with name only, or No. only	**1.00**	**1.25**
25 with name only, or No. only	**.75**	**.85**

Weight for mailing, **Cattle size, 2½ lbs. per 100; Sheep size, 1 lb. per 100. If mailed, postage extra.**

OVAL EAR PUNCHES—Cattle size: $1.75; Sheep and Hog size, $1.40. Postage 10c each.

IDEAL EAR BUTTONS
Pure Aluminum Hardened

Medium sized, suits all animals, clinches tight, cannot come out; double strength. Name and address on top side; number on bottom, or number and name can both appear on one side if not more than 18 letters and figures; if more than 18 both sides can be used to the limit of 30 letters and figures. Easily attached with special punch and pliers.

25—Weight 3 oz.	**$1.35**
50—Weight ¼ lb.	**2.00**
100—Weight ¾ lb.	**3.75**
500—Weight 4 lbs.	**16.50**
1000—Weight 6 lbs.	**30.00**

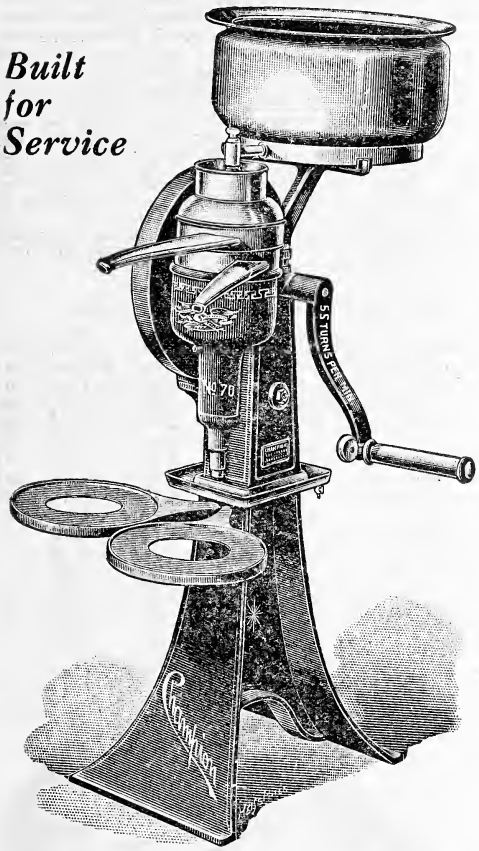
If mailed, postage extra.

Punch and Pliers—Each $1.50. Postage 10c.

Champion Cream Separators

BALL BEARING

Built for Service



THE CHAMPION CREAM SEPARATOR has many patented features not found in other separators, among them being the **Champion Perforated Distributing and Equalizing Sleeve,** which is the most valuable improvement ever placed in Cream Separators, and which, when combined with a disk skimming bowl, puts the **Champion** far in the lead.

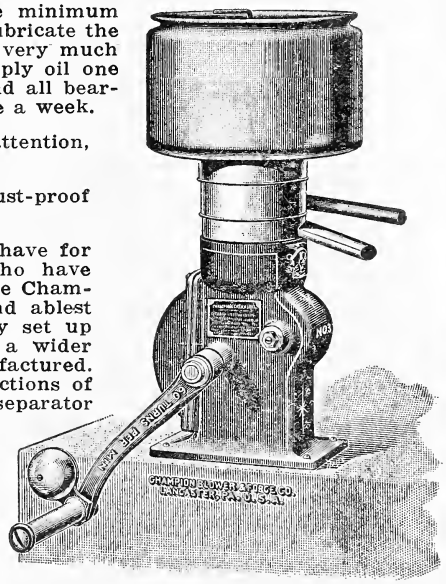
THE CHAMPION "PATENTED" CENTRIFUGAL CREAM SEPARATOR represents a revolution in invention and improvements, which produces results that fill ambitions and requirements never before accomplished in separating cream from milk, with cream of any density and richness. This invention represents equal uniformity in the feeding of the whole milk from the supply to the disks or the thin spaces between the disks to the extent that each and every disk in the bowl does its equal and full proportion of skimming. The disks' uniformity for skimming is so complete that we guarantee the tests taken from the composite of skimmed milk practically equally clean to any test taken during the run; and at the same time will skim clean, without any reasonable range of temperatures, as all other separators feed the whole milk from the supply into the separator disks in a direct body flow, and therefore, flood part of the disks and clog the balance.

CHAMPION BALL BEARING FEATURES. The vertical shaft in the larger sizes runs on ball bearings at the foot, and also intermediate ball bearings which insure quiet running and absence of vibration. These ball bearings lessen the labor of running a great deal over other types and increase the life of the separator.

CHAMPION PATENTED STEEL CLUTCH. Provides for instantly starting the separator with very little effort. It is positive in action, in every respect unbreakable and operates without a particle of noise. Simple, durable and impossible to miss a catch. It instantly stops the large driving and pinion gears when the crank is stopped, making the separator absolutely safe among children.

CHAMPION PATENTED RADIAL CUSHION SPRING. This cushion spring around the upper neck of the upright spiral shaft assures quiet running and unusual durability.

CHAMPION PATENTED AUTOMATIC OILING SYSTEM. Requires the minimum of attention and guarantees to lubricate the working parts of the separator very much better than other methods. Simply oil one place and every working part and all bearings are lubricated. Do this once a week.



CHAMPION SPEED INDICATOR. Aids the operator without special attention, to keep the speed regular, which is quite essential for close separation.

GEARS AND AUTOMATIC CLUTCH, all in one unit, is in an oil-tight, dust-proof gear case.

THE CHAMPION CREAM SEPARATOR is made by manufacturers who have for 60 years been making machinery for special high speed purposes and who have developed the highest grade bearing metals and materials for high speed. The Champion Separator was invented and created by some of the most scientific and ablest Cream Separator Engineers of the world and is guaranteed, when properly set up and run the number of revolutions shown on the crank, to skim milk at a wider range of temperatures, as clean or cleaner than any other separator manufactured. It has been on the market for several years and is widely known in most sections of the country. In introducing it to our trade we guarantee that each size separator will skim to its full rated capacity and will produce a fine smooth quality cream of any density required.

ALL PARTS coming in contact with milk are triple tin plated. Parts are easily and quickly removed and cleaned. Finished in a beautiful baked enamel, of rich blue color, with gold lettering and striping, giving it a very handsome appearance.

PRICES on Separators F. O. B. Portland. **TERMS**—Send references, state amount you can pay down and payments you can make and we will advise you immediately if acceptable. Note discount for cash at bottom of page.
PRICES—Subject to factory changes.

No.	Capacity	For	Type	Bearings	Height Over All	Ship. Weight	Price F. O. B Portland
1½	—150 lbs. per hr.	(1 to 3 cows)	—Bench	—Plain	20 in.	60 lbs.	$ 30.00
3	—300 lbs. per hr.	(1 to 5 cows)	—Bench	—Plain	21 in.	75 lbs.	40.00
25	—250 lbs. per hr.	(1 to 3 cows)	—Bench	—Ball Bearings	24 in.	85 lbs.	50.00
30	—300 lbs. per hr.	(1 to 5 cows)	—Floor	—Ball Bearings	45 in.	170 lbs.	80.00
50	—500 lbs. per hr.	(1 to 8 cows)	—Floor	—Ball Bearings	46 in.	175 lbs.	90.00
70	—700 lbs. per hr.	(1 to 14 cows)	—Floor	—Ball Bearings	47¾ in.	225 lbs.	95.00
90	—900 lbs. per hr.	(1 to 20 cows)	—Floor	—Ball Bearings	47¾ in.	230 lbs.	100.00

Prices on Separators Are Less 10% for Cash With Order

BEE SUPPLIES

If you live in the suburbs, keep poultry, or live on a farm, keep a few stands of bees; they will amply repay you for the little attention they require, and will often return you a splendid profit.

IF YOU OWN AN ORCHARD you must of necessity keep bees if you would secure the largest crops of most salable fruit, for proper pollination is essential to best development. Bees are easily obtained, are very little trouble, and an orchard and apiary make an ideal combination from a business standpoint. This subject is well worthy the careful investigation of all orchardists.

WE ARE THE PIONEERS in the Bee Supply business in the Northwest, are thoroughly familar with local conditions and requirements and if you are new to the business or the country we can be of much help in saving you any unnecessary outlay, work or loss of time and can start you on the right road to success. Stocks are large and complete and we can fill any size order on short notice and give the small order just as careful attention as the larger one.

WESTERN PINE AND CEDAR HIVES made to our order in standard sizes and designs; of first class material and workmanship, are very popular with local beekeepers. Our Western lumber is satisfactory and lasting and we recommend the hives as being economical and serviceable.

HOW TO ORDER

WHEN TO ORDER. Don't wait until your Bees have swarmed before you order your hives or supplies. Send in your orders early and be on the safe side.

PREPAY STATIONS. When you send in orders to go by fright or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always the case where there is no regular agent.

BEE SUPPLIES BY MAIL. The prices named in this catalog are not prepaid unless so stated. Many of the lighter supplies can be mailed, when it is necessary, but we believe express or freight the most satisfactory way of sending.

LARGE ORDERS. Perhaps you want only a hive or two and a few supplies; it may be your neighbors are in the same fix. This is your chance to make up a club order and secure your hives or supplies cheaper.

PRICES—All prices are subject to change without notice.

Beginners' Outfit

To the inexperienced we recommend the following complete equipment — all that is necessary except the bees—these you can generally purchase near your home and save the express charges. It is best to have them examined by an experienced man to see that the colony is in a healthy condition.

ITALIAN BEES (the leather colored), are to be preferred but any strong colony will do for we can supply pure bred Italian Queens that will soon Italianize the colony as the worker bees live but a short time.

1 **Copy A B C and X Y Z Bee Culture.**
1 **Fig. 1-8 Western Cedar Hive.**
1 **Clark's Cold Blast Smoker.**
1 **Bee Veil No. 2.**
1 **Parker Foundation Fastener.**
1 **Porter Bee Escape, Mounted.**
1 **Pair Long Canvas Gloves.**
"**Gleanings in Bee Culture**"—The best bee magazine—a year's subscription.

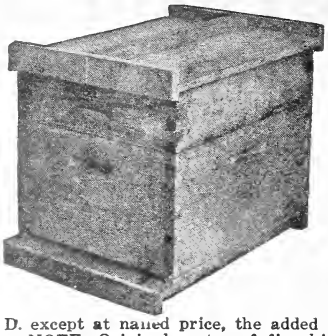
PRICE WITHOUT BEES $11.50
F. O. B. Portland

REAL BARGAINS IN BEE SUPPLIES

At these prices stock will not last long; first come, first served.

Ideal Supers, 8 fr., crates of 5	$3.00
Ideal Shipping Cases, each	.30
3⅝x5x1½ Ideal Sections—	
500 for	5.00
1,000 for	9.50

PORTLAND SEED COMPANY'S HIVE COMBINATIONS



Our Western hives, either Pine or Cedar, are standard sizes and well made of selected material dovetailed When ordering note the different figures. Fig. 1 means complete with sections and foundation for starter. Fig. 2 means without sections and foundation starter. Story and a half hives are preferred by many, consisting of brood chamber, brood frames, excelsior cover, bottom board, super for sections, with section holders and separators. Single story hives are equipped with brood frames, covers and bottom boards. Supers used for sections or extracting with half Hoffman frames or hive bodies with full depth frames require no extra cover or bottom boards. In complete or Fig. 1 hives, we send one sheet of foundation as starter for brood frames and one sheet of super foundation for starter in sections. If full sheets are wanted, these must be ordered by the pound. Hives and supers are packed and shipped in crates of 5 K. D. and no less than 5 will be shipped K. D. except at named price, the added cost being for breaking crates and repacking.

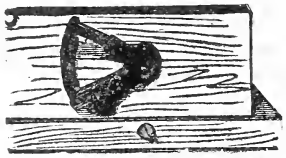
NOTE—Original crates of five hives are too large for Parcel Post. Nailed hives and supers are sold at increased price to cover cost of nailing and these take a higher freight rate than crates K. D. All supers for sections take the regular size 4¼x4¼x1⅞ sections.

PORTLAND SEED COMPANY'S DOVETAILED PINE HIVES

These hives made especially for our trade.

	Each Nailed	Five K. D.	Wt. of 5
8 Frame—Fig. 1, One and a half story	$4.15	$17.00	140
8 Frame—Fig. 1, Single story, no Super	2.70	11.00	103
8 Frame—Fig. 2, with Super, no Sections or Starter	3.50	13.75	135
8 Frame—Fig. 2, Single story, no Super	2.60	10.50	100
8 Frame—Hive Body, empty	1.00	4.25	35
10 Frame—Fig. 1, One and a half story	4.45	18.50	178
10 Frame—Fig. 1, Single story, no Super	2.85	11.75	128
10 Frame—Fig. 2, with Super, no Sections	3.75	15.00	163
10 Frame—Fig. 2, Single story, no Super	2.75	11.25	127
8 Frame—Hive Body and brood frames	1.40	6.00	.....
8 Frame—Covers	.70	2.75	.....
8 Frame—Bottom Boards	.50	2.00	.....
10 Frame—Covers	.75	3.25	.....
10 Frame—Bottom Boards	.60	2.50	.....
10 Frame—Hive Body, empty	1.05	4.25	.....
10 Frame—Hive Body and Brood Frames	1.50	6.25	.....

We can also supply the same equipment as above, in CEDAR HIVES.



VAN DEUSEN HIVE CLAMPS

Very convenient for fastening bottom board to hives and various other uses. They come in pairs. **Without screws, per pair, 10c; 10 pairs, 90c; add 3c per pair postage for single pairs.**

SECTION HOLDERS

Six section holders with separators, one follower and springs are put in each super, and each section holder holds four one-pound honey boxes. The bottom strip is ¼-inch thick and is cut out to fit insets of sections.

Western, 1⅞x18⅛ inches, slotted. **Weight** 20 lbs. per 100. **Each 5c; per 100, $4.50.**

Blocks—1⅞ Western. **Per 100, $1.25.**

Bottoms only—1⅞ inches wide, slotted. Western. Wt. 11 lbs. per 100. **Each 3c; per 100 $2.50.**

SEPARATORS

One separator should always be placed between each two section holders so that the bees will build the honey comb even in each section.

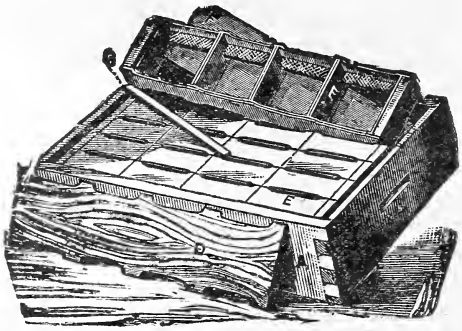
Western (Veneer) **8 lbs. per 100. Per 100, 90c.**

MISCELLANEOUS HIVE PARTS

DIVISION BOARDS—Wt. 5 oz. **Each, 20c—10, $1.50.**

FOLLOWERS—Each, 6c—10, 50c.

TIGHTENING SPRINGS—12 for 15c—100, 90c.

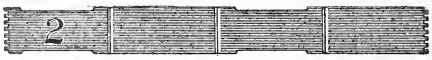


PORTLAND SEED COMPANY'S DOVETAILED SUPERS

This is one of the best Supers sold for the use of 4¼x4¼x1⅞ sections having beeways. We use wood separators (or slat separators), beeway sections, and section holders having bottom bars scored out to correspond with the beeways in the section.

Pine	Each Nailed	5 K. D.	Wt. 6 Lbs.
Fig. 1 8 fr. Complete	$1.35	$5.75	40
Fig. 2 8 fr. Less Sec. and Fdn.	1.05	4.50	35
Fig. 0 8 fr. Empty	.55	2.25	22
Fig. 1 10 fr. Complete	1.75	7.75	45
Fig. 2 10 fr. Less Sec. and Fdn.	1.20	5.00	35
Fig. 0 10 fr. Empty	.90	3.75	25
The above in Cedar or Pine.			
8 fr. Extracting	1.10	4.50	40
10 fr. Extracting	1.30	5.25	45

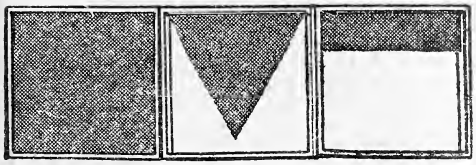
Extracting supers are deeper and take the Half-Hoffman shallow extracting frames.



Section Honey Boxes

Our No. 1 Sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects. They are not all snow-white, but vary from that to a light cream color. 4¼x4¼x1⅞ always sent unless otherwise ordered.

P. S. Co.'s No 1 ..... per 100 $1.70—per 500 $7.25
P. S. Co.'s No. 2 ..... per 100 $1.50—per 500 $6.25



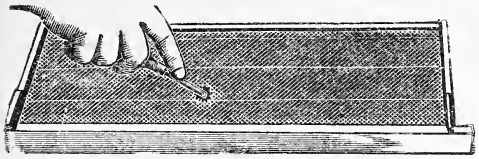
Full Sheet, Triangular and Quarter Sheet
Method of Using Foundation

COMB FOUNDATION

It pays to use foundation in full sheets in brood frames and sections, especially the latter. You should at least use a strip for a starter. Any width from one inch up.

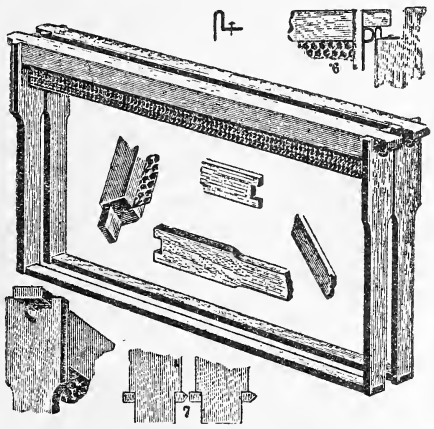
Our foundation is made by the "Weed process," and is a very superior article. Packed in 1, 2, 3, and 5-lb. eardboard boxes in a case. State grade you want.

GRADE	Size of Sheets	No. per lb.	In Lots of 1 lb.	In Lots of 10 lbs.
Medium Brood	7¾x16⅞	7	$0.80	$7.50
Extra Light Brood	7¾x16⅞	9	.85	8.00
Light Section	3⅞x15½	28	.90	8.50
Extra Light Section	3⅞x15½	39	.95	9.00



SPUR WIRE IMBEDDER—This is like a tracing wheel, with the teeth set to firmly imbed the wire and not injure the comb. **Price by mail, 50c.**

ELECTRIC WIRE IMBEDDER—A practical device that imbeds the wire by heating it electrically, the wire melting its way into the center of the wax foundation, only requires two common dry cells, simple and inexpensive. **Price, without batteries, $1.50.**

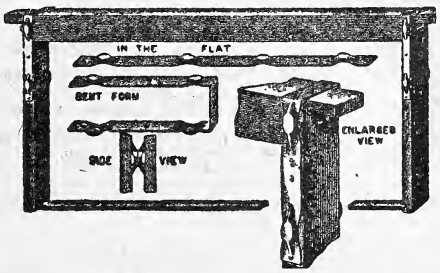


HOFFMAN BROOD FRAMES

The Hoffman Improved Foundation Fastening Frames are the most satisfactory. Top bar has a beveled strip which holds foundation in place, perfectly straight and exactly in center of top bar.

	Per 10	Per 100
Improved F. F. Western, Wt. per 10, 2½ lbs.	$0.75	$6.00
Half Hoffman Western, Wt. per 10, 2½ lbs.	.75	5.90

The Half Hoffman Frame is used in the Ideal super or shallow extracting super.

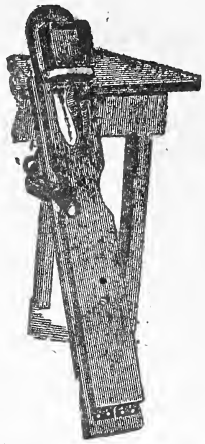


NEW METAL SPACED FRAME

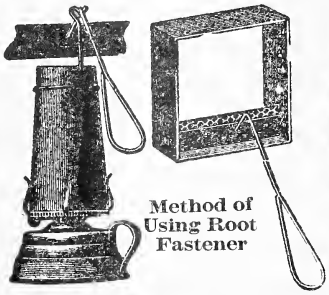
Recommended where there is much propolis. Spacing is accurate and frames handle easily.

Per 10, $1.00—100, $6.00. Weight per 10, 5 lbs.

Metal Spacers Only—Weight 1¾ lbs. **Per 100, $1.00.**

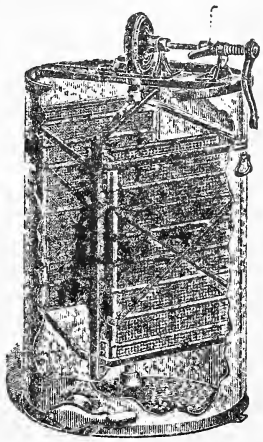


DAISY FOUNDATION FASTENER—One of the best for putting starters into sections. Easily operated. **With lamp,** Wt. 6½ lbs., **$3.40.** Owing to danger of breakage, no chimney is sent with lamp.



Method of Using Root Fastener

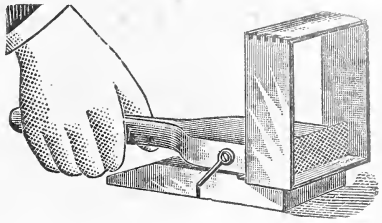
ROOT'S FOUNDATION FASTENER—Complete with lamp, weight 8 oz. **Price 75c; without lamp, 35c.**



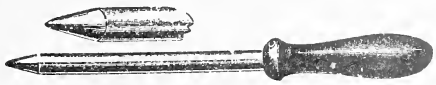
P. S. CO'S. TWO-FRAME EXTRACTOR—Now takes the lead over all others in use, as it is easily reversed. Always the best machine when rapid work is required. **Price $45.00.**

HATCH WAX PRESS

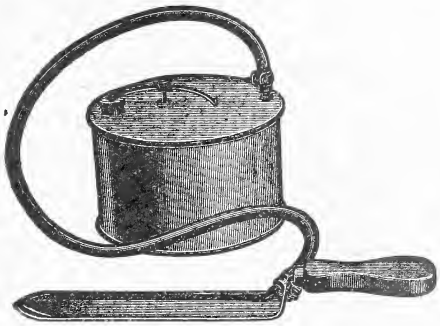
The most practical and satisfactory wax press, every part thoroughly tested to withstand the enormous strain placed upon a machine of this type. The quality of the wax is superior to that secured by other methods, and the economy and simplicity of operation makes the Hatch the best press for the average bee keeper. **Price, each, $20.00.**



PARKER'S FOUNDATION FASTENER — Illustration shows how used. Wt. 1 lb. **Price 50c.**



VAN DEUSEN WAX TUBE FASTENER—For fastening foundation sheets to thin top-bars there is nothing better. It is a tube half an inch in diameter, six inches long and tapering. This is filled with hot wax, and point slowly drawn along edge of foundation in contact with top-bar, leaving a fine stream of hot wax to cement it. **Price 45c each; by mail, 50c.**

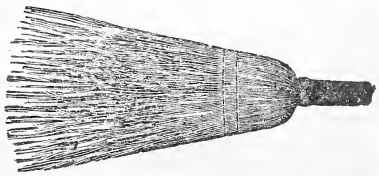


ROOT STEAM HEATED UNCAPPING KNIFE

For a large amount of uncapping, this knife is the best tool ever devised. Handle is one piece, fastened securely to blade. Will slice off cappings much more rapidly than a cold knife or one that has to be dipped in hot water. Knife is kept constantly hot, cappings slide off from it without sticking. The copper boiler used with this knife is equipped with a fool-proof safety-valve. It is adjustable, and opening is also used as a filler hole. This boiler, in connection with a suitable oil or gasoline stove, completes outfit. Three feet of rubber steam hose furnished with knife. Steam-heated 10-inch knife, 3-ft tubing. Wt. 2 lbs. **Price $5.50.** Steam boiler with safety valve for use with above. Wt. 3 lbs. **Price $3.00.**

ROOT NICKELED STEEL HIVE TOOL—Made of spring steel; will stand any strain as a pry or scraper; is the best tool made. Wt. 4 oz. **Price, each, 65c**

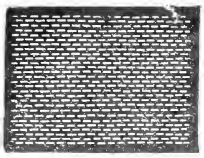
BINGHAM HONEY KNIFE—Prices **$1.80; by mail, $1.88**



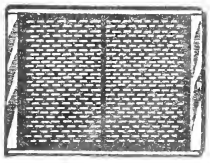
COGGSHALL'S BEE BRUSH—For the wholesale brushing of bees off combs when extracting. **30c; by mail, 35c.**

HANDY BEE BRUSH—Horse hair. One of the best, most lasting brushes. **Price 45c; by mail 50c.**

BEES SUPPLIES, *Cont.*



No. 1 or 11



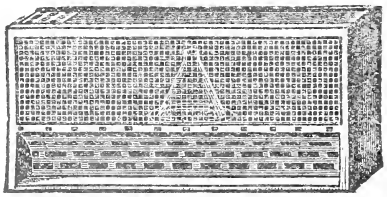
No. 12 or 13

ZINC HONEY BOARDS
ROOT'S OR TINKERS

Honey boards are used to confine the queen of the brood chamber, and are very generally used in the production of extracted honey. Nos. 1 and 11 are of unbound zinc, and are placed directly on top of frames. This allows bees to pass through holes directly over spaces between the frames. When placed on the dovetailed or other similar hives there is a bee space above and below the zinc.

PRICES

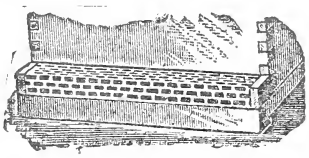
No. 11— 8-frame, unbound, 12x19½ in.....$0.45
No. 1—10-frame, unbound, 14x19⅛ in..... .50
No. 8— 8-frame, wood and wire, 13⅞x20 in. .90
No. 7—10-frame, wood and wire, 16x20 in. 1.00
8-frame, 7-wire .....Each 1.10
10-frame, 7-wire .....Each 1.10



COMBINED DRONE AND QUEEN TRAP
IMPROVED WIRE FRONT

This is placed before entrance of hive, to catch and cage the drones in an apartment by themselves. They can then be carried to another apiary, or be destroyed. The trap will also catch the queen when a swarm issues, and hold her confined until the apiarist can give her his attention. As she cannot get away, the bees will, in all likelihood, return into the hive. An excellent non-swarming device. Directions for use are attached to each trap. Wt. 1 lb.

Each, 8 frame, $1.00—10 frame, $1.10.



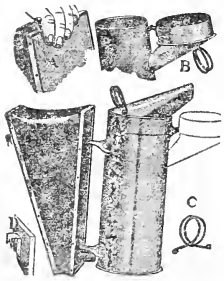
BEE ENTRANCE GUARDS—ROOT'S OR TINKER'S—These are to admit workers, and to exclude drones. After the drones are out, fix the guards over the entrance; at night the drones can be destroyed. **Price, Zinc Front, 30c.**

IMPROVED WIRE FRONT. Wt. 6 oz. **Price, 8 frame, 35c—10 frame 40c.**

PORTER BEE ESCAPE—For use when taking off the honey. Does away with shaking the supers and smoking the bees. Saves stings. Simply slip an escape board between super and brood rest toward night.

Price, as **per illustration, postpaid**.....25c
Price, **mounted on board** (weight 2¼ lbs.) **not postpaid** 70c

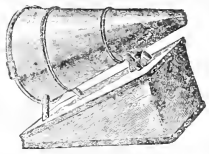
PORTER'S ESCAPE FOR HONEY HOUSES
The escape shown above is designed for the hive, but this is especially made for use on doors and windows of workshops, extracting rooms and other places where bees get in, and it is desirable to get them out without the possibility of their returning. No extracting room will be complete without one or more of them. Weight 2 oz. **Price, 25c postpaid.**



BEE SMOKERS

Root's Improved Corneil—Burns anything, preferably greasy rags for their dense smoke.

Small, 3x5½ in., wt. 2 lbs, ea...$1.10
Medium, 3½ x 7 in., wt. 2½ lbs., each..... 1.60
Large, 4x7 in., wt. 3 lbs., ea. 2.00



CLARK'S COLD BLAST SMOKER—Probably the most popular smoker in use today is the cold blast, although many are now changing to the hot blast, claiming that they are more effective. The Clark is the best low priced smoker. Weight 1¼ lbs. **Price $1.10.**

HAT BEE VEILS—Rubber band around top, to fit hat snugly.

(Postpaid)

No.1—Silk tulle.....$1.60
No. 2—Cotton tulle, with silk tulle face..1.40
No. 3—Cotton tulle.... 1.20

GLOBE BEE VEIL—No trouble to put on or take off. Protection against mosquitoes, flies, bees, gnats, etc. Weighs only five oz. **$1.65.**

ALEXANDER — Fine Bronze Wire Cloth. Stands clear of face; muslin top and bottom. Wt. 1 lb. **Price $1.50.**

BEEKEEPERS' GLOVES

CANVAS — Long Sleeve, Oiled, Ladies' or Misses'. **Price $1.25—Postpaid $1.35.**

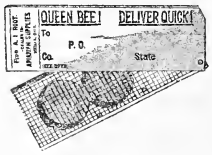
"GLEANINGS IN BEE CULTURE"
Send us your subscription. **Price $1.00.**

QUEEN BEES

We are in a position to furnish untested Italian queens after the middle of April, weather conditions being favorable. It takes about seven days to get these in from the apairy, so do not expect queens by return mail. **Untested Queen, May, June, July, August, Sept. Price $2.00.**

Tested Queens cannot be furnished before May. **Price each, $2.50.**

CAGES FOR QUEENS



BENTON CAGE—This is undoubtedly the best cage for mailing and is adapted likewise for introducing. Directions for introducing are printed on the cover. **Price, no candy, by mail, 5c each, 100 $4.50.**

ROOT'S QUEEN REARING OUTFIT — A complete set of tools and materials, with instructions, enabling one with little experience to rear his own queens at small expense. **Price $6.50.**

HONEY SHIPPING CASES

These have a glass front, and are designed for marketing honey. If you expect the best market price, you must put your honey up in nice cases.

24-lb.....4¼x1⅞ Sections, Nailed, Each....55c
24-lb. for 3⅝x5 Sections—Ideal, Nailed. Each 30c

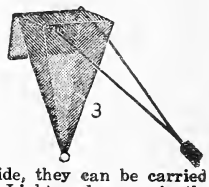
No. 30 TINNED WIRE

¾-oz. spools, each.....10c
¼-lb. spools, each.....25c
½-lb. spools, each.....40c
1-lb. spools, each.....60c
5-lb. coils, each.....$2.50
Add postage if mailed.

T-TINS AND RABBETS

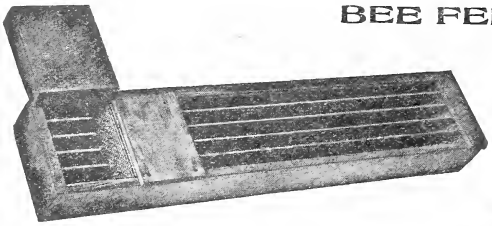
		Per 10	Per 100
T. Rab.,	12-in.	20c	$1.90
	14-in.	25c	2.40
T. Tins,	13-in.	25c	2.35
	15-in.	25c	2.45
Fl. Tins,	13-in.	20c	1.40
	15-in.	20c	1.45

MANUM'S SWARMING DEVICE

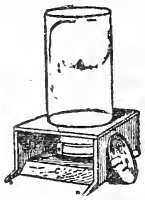


To hive a swarm, place the open basket under a cluster of bees, so that when they are shaken from their position they will fall into basket. Close lid, and as most of the bees will be inside, they can be carried and emptied into hive. Light and conveniently carried. **Price, wire basket, without pole, bail only, $2.50. Weight 3½ lbs.**

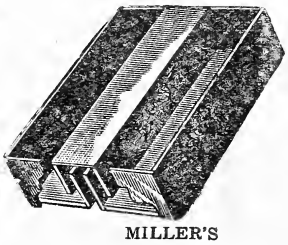
BEE FEEDERS



ALEXANDER



BOARDMAN



MILLER'S

ALEXANDER FEEDER—Bottom board slides forward, feeder is placed at back and under hive. Bees go into feeder from brood chamber. Weight 1¼ lbs. **Price 75c.**

MILLER'S FEEDER—Sets on the hive in space occupied by a super. Holds 25 pounds of syrup. Shuts all bees beneath, and they enter it from below. Syrup is poured in on either or both sides. Wt. 5 lbs. **Nailed up complete, each $1.25; in flat, 90c.**

BOARDMAN'S FEEDER—Weight ½ lb. **Price, without jar, 35c.**

DIVISION BOARD FEEDER—Made to hang in brood chambers, to one side or between the frames. Weight 1¾ lbs. **Price 55c.**

WEST QUEEN-CELL PROTECTOR—**Each, by mail, 15c.**

SPIRAL CAGES—For holding queen after she hatches. **Each 15c; by mail.**

DOOLITTLE CELL PROTECTORS — **Each, by mail, 10c.**

A B C and X Y Z of Bee Culture

The new and revised edition of this work is the most complete and best book ever issued and is equally valuable to the advanced beekeeper as well as the beginner. Mailing weight 4 pounds. **Price $3.15.**

BEE HEALTH

Found at last, a treatment for American and European FOUL BROOD B-H. A clear, clean liquid, a preventative. If interested, send for Bulletin 638-B, this gives all details and information. **Price, gallon each, $3.00.**

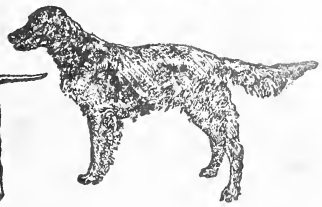
Pedigreed Puppies and Fancy Dogs

Pointer

English Setter.

English Bull Dog

Bull Terrier


Irish Setter

Scotch Collie.

Pekinese Spaniel

Cocker Spaniel

Pomerantan

Airedale Terrier

Smooth Coated Fox Terrier.

We are prepared to furnish the best strains of pedigreed puppies in season, puppies whose parents and ancestors are registered stock. We furnish the pedigree papers with each puppy showing its parents and ancesters, and, after giving the puppy a name, the purchaser may have his dog officially registered. In selling pedigreed dogs only we can supply the best dogs on the market.

PRICES OF PUPPIES AND DOGS

The various breeds of puppies range from $10.00 to $50.00 each, with the females usually $5.00 to $15.00 less than the male of the same breed. We can usually furnish promptly puppies of all the breeds pictured above as well as others, or within a short time after order is received.

Irish Terrier

Spratt's Dog Foods and Remedies

We are selling agents for these famous preparations which have the endorsement of the big breeders and fanciers—and are the standard in their line. We can only list a few items in this catalog, but will mail free to dog owners "Spratt's Dog Culture," which gives reliable and interesting information on care of dogs and about "Spratt's" preparations.

SPRATT'S OVALS—The pocket-biscuit for dogs. **10 lbs. $1.65; 25 lbs. $3.55; 50 lbs. $7.25; 100 lbs. $14.00, F. O. B. Portland.**

SPRATT'S DOG CAKES—10-lb. bags, $1.60; 25-lb. bags, $3.25; 50-lbs. $6.50; 100 lbs. $12.50, F. O. B. Portland.

SPRATT'S PUPPY CAKES—10-lb. bags, $1.60; 25-lb. bags, $3.50; 50 lbs. $6.75; 100 lbs. $13.00, F. O. B. Portland.

SPRATT'S FIBO—10-lb. bags, $1.75; 25-lb. bags, $3.75; 50 lbs. $7.50; 100 lbs. $15.00; F. O. B. Portland.

SPRATT'S DOG SOAP, 30c, postpaid.

SPRATT'S PUPPY WORM CAPSULES, 60c, postpaid.

SPRATT'S DOG WORM CAPSULES, 60c, postpaid.

SPRATT'S DIARRHOEA TABLETS, 60c, postpaid.

SPRATT'S DISTEMPER TABLETS, $1.00, postpaid.

SPRATT'S DISTEMPER TABLETS — For Toy dogs and puppies, **$1.00, postpaid.**

SPRATT'S EAR CANKER OINTMENT, 75c, postpaid.

SPRATT'S EYE LOTION TABLETS, 60c, postpaid.

SPRATT'S FLEA POWDER, 40c, Postpaid.

SPRATT'S MANGE MEDICINE, 60c, postpaid.

Canned Dog Foods

These foods are used and recommended by the leading Veterinarians, also used by fanciers and breeders. A perfectly balanced ration ready to serve. **Prices F. O. B. Portland—Add Postage for Parcel Post.**

KEN-L-RATION, 1 lb. Cans, Each 20c; Doz. $2.00; 7 lb. Cans Each $1.00; 6 Cans $5.75.

PUPP-E-RATION, 1 lb. Cans Each 20c; Doz. $2.25; 2½ lb. Cans Each 50c; Doz. $5.50.

HEMO-RATION, 1 lb. Cans Each 20c; Doz. $2.25.

MARO-MEAT, 2½ lb. Cans Each 60c.

FOX BISCUIT

Especially prepared for silver foxes, for maintaining perfect condition and health, increasing the growth of coat and improving its lustre and quality. Better than dog biscuit for foxes, and also very good for dogs. Try them. **Per lb. 20c; 100 lbs. $12.00, F. O. B. Portland.**

CANOPENER

The Star Canopener is an ideal canopener, adapted for cutting the entire top off, leaving a clean edge so that contents of a solid nature such as meats, corn beef, etc., and especially canned dog foods, can be removed smooth and entire. Try it. **50c each; 60c, postpaid.**

Clayton's Dog Remedies

Send for Clayton's free book full of valuable information to dog owners, and describing the full line of Clayton's Dog Remedies.

For Parcel Post Add Postage to Prices Below

CLAYTON'S MANGE REMEDY	60c
CLAYTON'S LAXATIVE PILLS	60c
CLAYTON'S WORM PILLS	60c
CLAYTON'S COUGH REMEDY	60c
CLAYTON'S PUPPY TONIC	60c
CLAYTON'S KILFLEA SOAP	35c
CLAYTON'S KILFLEA POWDER	35c
CLAYTON'S CEOLINE SOAP	25c

Glover's Dog Remedies

GLOVER'S VERMIFUGE, 65c, postage extra.

GLOVER'S MANGE CURE, 65c, postage extra.

GLOVER'S DISTEMPER REMEDY, $1.25, postage extra.

Delcreo Dog Remedy

The one recommended remedy for distemper, black tongue, pneumonia, colds, etc. Every fancier and breeder should keep it on hand. **4 oz. bottle $1.50; 16 oz. bottle $5.00, F. O. B. Portland.**

California Brand Dog Foods

Made in a new factory, under conditions as sanitary as are maintained in the manufacture of the food you eat. Not medicine, but foods that make medicines seldom necessary. **Prices F. O. B. Portland.**

CALIFORNIA MEAT BONE BISCUITS, for grown dogs. **10-lb. bags, $1.50; 20 lbs. $2.65; 50 lbs. $6.50; 100 lbs. $12.50.**

CALIFORNIA NUT BONE BISCUITS, for puppies and small dogs. **10-lb. bags, $1.50; 20 lbs. $2.65; 50 lbs. $6.50; 100 lbs. $12.50.**

CALIFORNIA PUP-O, makes a tempting dish and an excellent change of food for any size dog. **10 lbs. $1.50; 20 lbs. $2.65; 50 lbs. $6.50; 100 lbs. $12.50.**

CALIFORNIA CIRCLES—A small size convenient biscuit for all sizes of dogs. They do not crumble in the pocket. **10 lbs. $1.50; 20 lbs. $2.65; 50 lbs. $6.50; 100 lbs. $12.50.**

CALIFORNIA KIBBLE—Dog biscuits partly broken up for mixing with soup or vegetables. **10 lbs. $1.50; 20 lbs. $2.65; 50 lbs. $6.50; 100 lbs. $12.50.**

CAT REMEDIES

SPRATT'S WORM CAPSULES, 60c, postpaid.

CATNIP, Package 15c; postpaid 20c.

CATNIP MICE, each 15c; postpaid 20c.

GOLD FISH AND AQUARIUMS

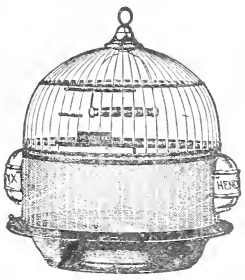
We carry a large and complete variety of gold fish and many designs of aquariums, together with all the types of castles and other furnishings for aquariums. Write us for prices and full description.

FISH FOODS

Natural Fish Food, postpaid, 20c
Rice Flakes, pkg., postpaid, 20c

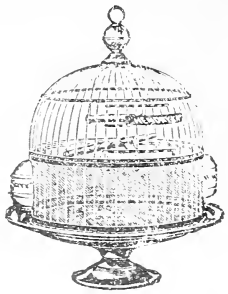
"HENDRYX" BRASS CAGES—THE BEST BIRD CAGES MADE

With brass wire guard, polished base and foot piece, ball top. A new. graceful design. No. 6040G — 12 in. dia, 22½ in. high. Price $15.00.



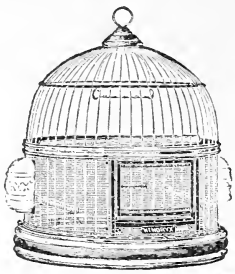
With brass wire guard, polished base. Complete as shown.

No.	Dia. Ins.	Hgt. Ins.	Price
1274	10¼	13¼	$4.75
1275	11	13¾	5.75
1276	11¾	15¼	6.75



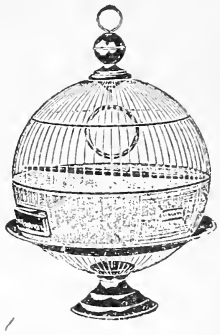
With extra top rail, brass wire guard and foot piece.

No.	Dia. Ins.	Hgt. Ins.	Price
274	10¼	15¼	$5.00
275	11	15¾	6.00
276	11¾	17¼	7.00



With brass wire guard. Handsome dull brass finish, very attractive.

No.	Dia. Ins.	Hgt. Ins.	Price
525	10¼	13	$6.60
530	11	14	7.00
535	11¾	14¾	8.25



With brass wire guard. Polished base, foot piece and ball top. A handsome roomy cage. No. 6000 — 12 in. dia. 18¼ in. high. Price $12.25

All Prices on Cages and Stands Are F. O. B. Portland

"HENDRYX" BRASS CAGE STANDS

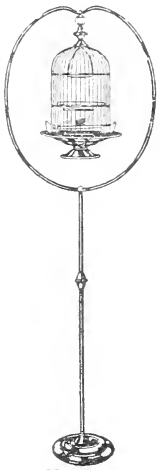
No. 18A

An exceptionally attractive brass stand, polished brass tubing upright and solid arch. Weighted base. Height 5 ft. 7 in.

No. 18A--Stand without cage. Price $5.50

No. 18A--Stand complete with No. 274 cage. Price $10.50

(Any cage may be used with this stand. Simply add price of cage you select to price of stand.)



No. 19A

OVAL RING STAND—with brass tubing upright and solid arch. Polished brass. Base weighted. Height 5 ft. 6 in.

No. 19A—Stand without cage. Price $7.25.

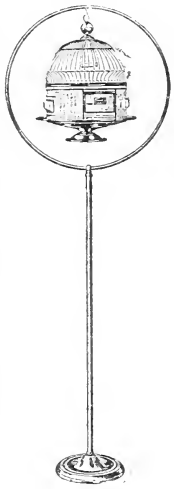
No. 19A—Stand with No. 276 cage. Price $14.25.

CIRCULAR RING STAND — Large circular arch 21 inches in diameter, height 5 ft. 5 in. Polished brass, height 5½ ft.

No. 24A — Stand without cage. Price $9.00.

No. 24A — Stand with cage No. 275. Price $15.00.

(If any other type of cage is desired, add price of cage to stand.)



No. 24A

This stand is very graceful and beautifully made. Polished brass tubing upright and arch. Weighted base. Height 5 ft 6 in.

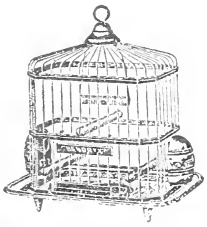
No. 25A--Stand without cage. Price $7.50

No. 25A--Stand with No. 275 cage. Price $13.50

(Or any other cage may be used as you desire. Add price of cage to price of stand.)

No. 25A

"HENDRYX" JAPANNED CAGES



Ivory finish japanned cages, in all sizes. Very attractive, yet inexpensive.

No.	Length	Width	Hgt.	Without Guard	With Guard
65	9¾	6¼	12½	$2.75	$3.65
66	10¼	6¾	13½	2.85	4.50
67	11	7½	14	3.25	4.90
68	12¼	8	14½	3.50	5.50
69	12¾	8¾	15¼	3.75	6.00

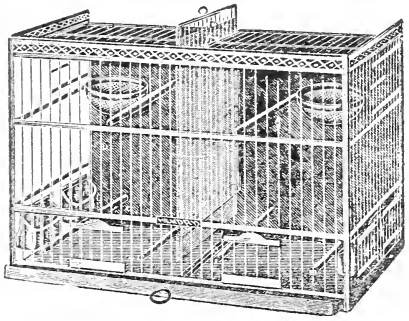
CAGE SPRINGS

No. 100—Single, brass plated, postpaid, each 15.

Double, brass plated, postpaid, ea. 25c.

BATH DISHES

Opal or Plain—25c and 30c Each. Postpaid. 30c and 35c.



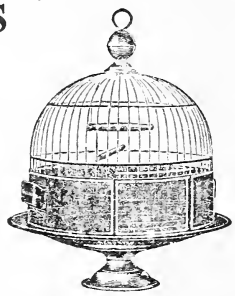
DOUBLE BREEDING CAGE

White enameled, green trimmed. With solid and wire partitions, metal drawer and closed back. Four glass cups, 6 perches, 2 nests.

No.	Length in.		Width in.		Height in.	Price
86S	17¼	x	8¾	x	14	$5.00
86	19½	x	10	x	14¾	6.00
87	22	x	11	x	16¼	7.00
88	24½	x	12½	x	17	8.00

SWINGING CAGE HOOK

Brass plated, 12 in. long. Each 25c.



Ivory enameled, with fine green striping. With wire guard attached.

No.	Dia. in.	Hgt. in.	Price
6	10¼	14¼	$4.75
6½	10⅞	14½	5.25
7	12	14½	6.50

CAGE SUPPLIES

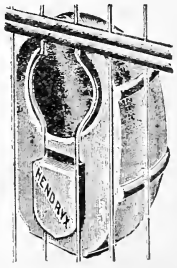
Covered Cups

No. 1907 — Opal glass. Each 15c.

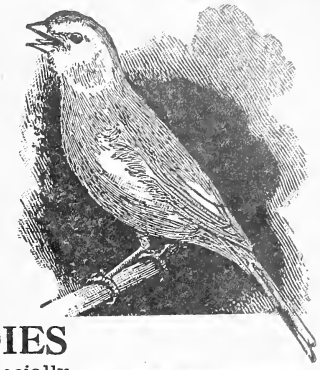
No. 1904 — Flint glass. Each 15c.

Cuttle Bone Holder Postpaid 10c

Food Holder Postpaid 10c



SONG BIRDS



IMPORTED CANARIES

These beautiful birds with their cheery songs, bright plumage, active ways and happy dispositions are the favorite song birds of all. They have a wide range of color varying from clear bright orange yellow to deep green colorings.

ST. ANDREASBERG ROLLERS

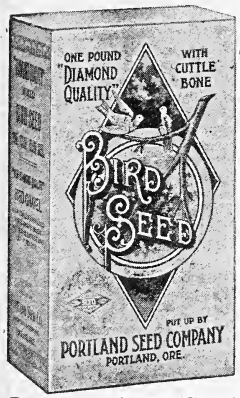
The finest singers among the canaries, having only the soft, clear, musical notes that have made them the leading favorites both in Europe and the United States. We secure these songsters only from the best imported European strains.
Prices: Good Young Singer, $10; Selected Singer, $15.00; Trainer, $25; Females, $5.00.

GOOD AMERICAN CANARIES

Excellent singers of the popular American type, in all colors from bright yellow to green tones. **Prices: Male Singer, $5.00; Females, $1.50 to $2.50.**

All Birds Are Shipped Only by Express.

BIRD SEEDS, FOODS AND REMEDIES



ROLLER SPECIAL SEED MIXTURE, the very finest, put up especially for singers. **1 lb. Sealed pkg. 35c Postpaid; 5 pkgs. $1.25 Postpaid.**

PORTLAND SEED CO. DIAMOND MIXTURE, next to our roller special, the best put up. **1 lb. Pkg. 25c Postpaid; 10 lbs. $1.35 Postpaid.**

Prices Postpaid on the Following Unless Otherwise Stated

Canary Seed, recleaned, ...lb. 20c, 10 lbs. $1.75
Hemp Seed, recleaned, ...lb. 20c, 10 lbs. $1.10
Rape, Sweet Summer .....lb. 20c, 10 lbs. $1.45
Millet, recl'ned..lb. 20c, 19 lbs. $1.45
Bird Manna.....Pkg. 20c, Doz. $2.50
Bird Paste.....Pkg. 20c, Doz. $2.50
Bird Gravel, Package.....25c
Birdolene, Package 20c
Haller's Canary Pie.....20c
Kaempfer's Canary High Ball, 2 for 30c
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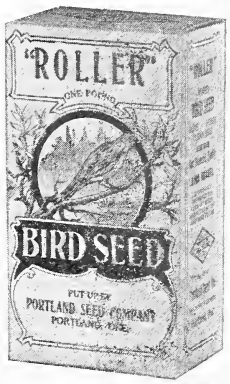

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